

Banking, Finance, and Insurance

This section presents data on the Nation's finances, various types of financial institutions, money and credit, securities, and insurance. The primary sources of these data are publications of several departments of the Federal Government, especially the Treasury Department, and independent agencies such as the Federal Deposit Insurance Corporation, the Federal Reserve System, and the Securities and Exchange Commission. National data on insurance are available primarily from private organizations, such as the American Council of Life Insurance.

Flow of funds.—The flow of funds accounts of the Federal Reserve System (see tables 827 to 832) bring together statistics on all of the major forms of financial transactions and financial claims to present an economy-wide view of asset and liability relationships. In flow form, the accounts relate borrowing and lending to one another and to the nonfinancial activities that generate income and production. Each claim outstanding is included simultaneously as an asset of the lender and as a liability of the debtor. The accounts also indicate the balance between asset totals and liability totals over the economy as a whole. Several publications of the Board of Governors of the Federal Reserve System contain information on the flow of funds accounts: Summary data on flows, in the *Federal Reserve Bulletin*, *Flow of Funds Accounts* (quarterly), and *Annual Statistical Digest*; and concepts and organization of the accounts, in *Introduction to Flow of Funds* (June 1980).

Banking system.—Banks in this country are organized under the laws of both the States and the Federal Government and are regulated by several bank supervisory agencies. State-chartered banks are supervised by officials of the respective States. National banks are supervised by the Comptroller of the Currency. *Reports of Condition* have been collected from national banks since 1863. Summaries of these reports are published in the *Comptroller's Annual Report*, which also presents data on the structure of the national banking system.

The Federal Reserve System was established in 1913 to exercise central banking functions, some of which are shared with the U.S. Treasury. It includes national banks and such State banks as voluntarily join the System. Statements of State bank members are consolidated by the Board of Governors of the Federal Reserve System with data for national banks collected by the Comptroller of the Currency into totals for all member banks of the System. Balance sheet data for member banks and other commercial banks are published in condensed form in the *Federal Reserve Bulletin*.

The Federal Deposit Insurance Corporation (FDIC), established in 1933, insures each depositor up to \$100,000 currently in banks that are members of the Federal Reserve System and in such nonmember banks as join the insurance fund. A balance sheet for all banks in the country is published in the FDIC's *Annual Report*. Major item balance sheets for all commercial banks are published monthly in the *Federal Reserve Bulletin*.

Savings and loan and other credit agencies.—Savings and loan associations, insurance companies, finance companies dealing primarily in installment sales financing, credit unions, and personal loan companies represent important sources of funds for the credit market. Savings and loan associations are primarily involved in credit extension in the form of mortgage loans. Statistics on savings and loan associations are collected by the Federal Home Loan Bank Board. Statistics on loans, investments, cash, etc., of life insurance companies are published principally by the American Council of Life Insurance in its *Life Insurance Fact Book*. Consumer credit data are published currently in the *Federal Reserve Bulletin*.

Federally chartered credit unions are under the supervision of the National Credit Union Administration, established in 1970. State-chartered credit unions are supervised by the respective State supervisory authorities. The Administration publishes comprehensive program and statistical information on all Federal and federally insured State credit unions in the *Annual Report of the National Credit Union Administration*. Deposit insurance (up to \$100,000 per account) is provided to members of all Federal and those State credit unions that are federally-insured by the National Credit Union Share Insurance Fund which was established in 1970. Deposit insurance for State chartered credit unions is also available in some States under private or State-administered insurance programs.

Government corporations and credit agencies make available credit of specified types or to specified groups of private borrowers, either by lending directly or by insuring or guaranteeing loans made by private lending institutions. Data on operations of Government credit agencies, along with other Government corporations, are available in reports of individual agencies; data on their assets and liabilities are published in the *Treasury Bulletin*.

Currency.—Currency, including coin and paper money, represents more than one-fourth of all media of exchange in the United States, with most payments made by check. All currency is now issued by the Federal Reserve Banks.

"Currency and coin in circulation" (official *Statement of United States Currency and Coin*) refers to all coin and paper money issued by the Federal Reserve Banks, except gold and silver coin known to have been exported and, beginning with 1934, all gold coin. It includes all coin and paper money held by the public in the United States. It also includes cash in vaults of commercial and savings banks, currency irretrievably lost or destroyed by natural causes, and currency carried abroad by travelers.

Securities.—The Securities and Exchange Commission (SEC) was established in 1934 to protect the interests of the public and investors against malpractices in the securities and financial markets and to provide the fullest possible disclosure of information regarding securities to the investing public. Since its inception, the SEC has compiled a comprehensive monthly data series on new corporate securities offerings that covers substantially all new issues offered for cash sale in the United States in amounts over \$100,000 and with terms to maturity of more than one year. This series is published monthly in the *SEC Monthly Statistical Review*.

Insurance.—Insuring companies, which are regulated by the various States or the District of Columbia, are classified as either life or property. Companies that underwrite accident and health insurance only and those that underwrite accident and health insurance in addition to one or more property lines are included with property insurance. Insuring companies, other than those classified as life, are permitted to underwrite one or more property lines provided they are so licensed and have the necessary capital or surplus.

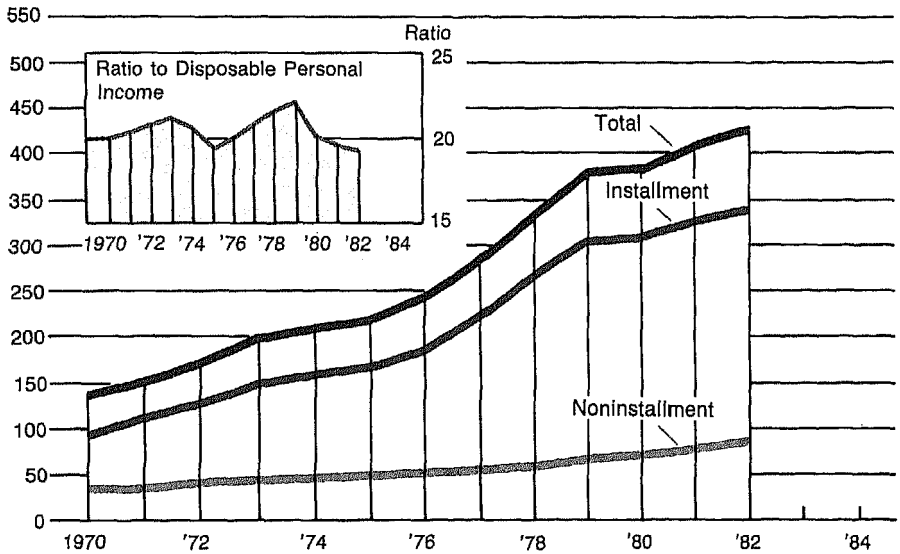
There are a number of published sources for statistics on the various classes of insurance—life, health, fire, marine, and casualty. Individual States collect data on all insurers operating within their respective jurisdictions, and many of the States publish an annual insurance report giving individual company data and aggregates of certain items for the companies operating within the State. Organizations representing certain classes of insurers publish reports for these classes. Among them are the annual commercial publishers, such as The National Underwriter Company whose *Argus Chart* (annual) contains financial and operating data for individual health and accident insurance companies, including Blue Cross and Blue Shield Plans. The American Council of Life Insurance publishes statistics on life insurance purchases, ownership, benefit payments, and assets in its annual *Life Insurance Fact Book*.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix 1.

Figure 17.1

Consumer Credit: 1970 to 1982

Billions of dollars

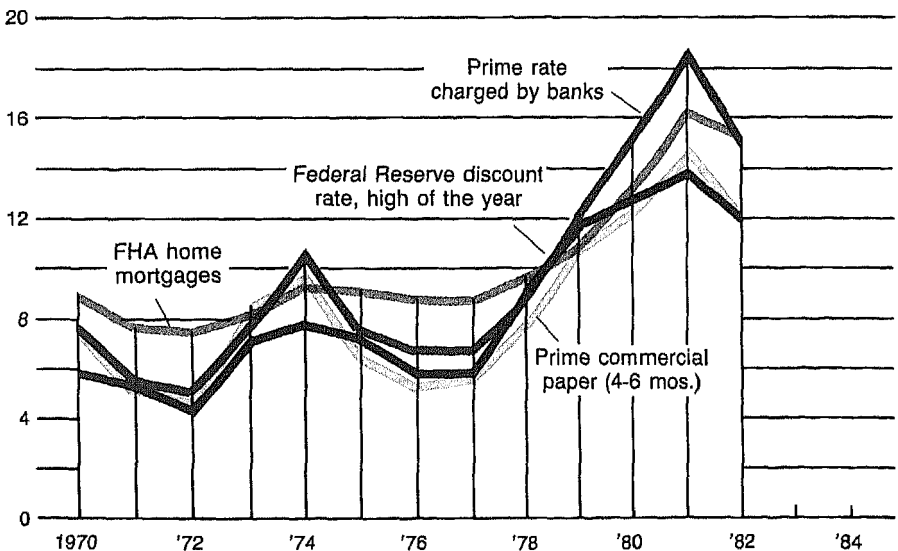


Source: Chart prepared by U.S. Bureau of the Census. For data, see table 859.

Figure 17.2

Money Market Rates: 1970 to 1982

Percent per annum



Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 867 and 870.

NO. 827. FLOW OF FUNDS ACCOUNTS—FINANCIAL ASSETS AND LIABILITIES OF FINANCIAL AND NONFINANCIAL INSTITUTIONS, BY SECTOR AND TYPE OF INSTRUMENT: 1982

[In billions of dollars. As of Dec. 31. Preliminary. A=Assets; L=Liabilities. SDR=Special drawing rights, IMF=International Monetary Fund. RPs=Repurchase Agreements. "N.e.c."=Not elsewhere classified]

TYPE OF INSTRUMENT	TOTAL		PRIVATE DOMESTIC NONFINANCIAL INSTITUTIONS									
	A	L	Total		Households		Business		State and local govts.			
			A	L	A	L	A	L	A	L		
Financial assets	12,745.5	(x)	6,851.7	(x)	5,394.5	(x)	1,173.3	(x)	283.9	(x)		
Liabilities.....	(x)	10,937.6	(x)	4,314.8	(x)	1,740.7	(x)	2,155.7	(x)	418.4		
Gold stock and SDR's.....	76.0	-	-	-	-	-	-	-	-	-		
IMF position	7.3	7.3	-	-	-	-	-	-	-	-		
Official foreign exchange	10.2	10.2	-	-	-	-	-	-	-	-		
Treasury currency	18.4	16.5	-	-	-	-	-	-	-	-		
Checkable deposits and currency	497.4	535.4	412.9	-	312.5	-	95.1	-	5.2	-		
Time and savings accounts	1,716.3	1,716.3	1,592.6	-	1,461.7	-	60.0	-	70.9	-		
Fed. funds and security RP's	94.4	145.5	43.3	-	-	-	26.6	-	16.6	-		
Money market fund shares	206.6	206.6	206.6	-	206.6	-	-	-	-	-		
Foreign deposits	35.8	35.8	12.0	-	-	-	12.0	-	-	-		
Life insurance reserves	244.6	244.6	244.6	-	244.6	-	-	-	-	-		
Pension fund reserves	931.7	931.7	931.7	-	931.7	-	-	-	-	-		
Interbank claims	-24.5	-24.9	-	-	-	-	-	-	-	-		
Corporate equities ¹	1,811.7	89.9	1,306.2	-	1,306.2	-	-	-	-	-		
Credit market instruments ²	5,656.1	5,656.1	1,102.5	3,758.6	821.4	1,676.4	103.6	1,693.9	177.5	388.3		
U.S. Treasury securities ³	987.7	987.7	371.4	-	276.3	-	11.2	-	83.9	-		
Federal agency securities ⁴	385.0	385.0	126.3	-	84.3	-	1.8	-	40.2	-		
State and local securities	449.4	449.4	166.3	449.4	155.3	-	3.5	70.8	7.5	378.6		
Corporate and foreign bonds.....	570.6	570.6	73.5	423.3	73.5	-	-	423.3	-	-		
Mortgages.....	1,652.1	1,652.1	232.5	1,649.8	186.6	1,138.5	-	511.2	45.9	-		
Consumer credit	428.0	428.0	55.7	428.0	-	428.0	55.7	-	-	-		
Bank loans, n.e.c.	538.7	538.7	-	476.1	-	35.3	-	440.8	-	-		
Open-market paper	242.5	242.5	76.7	58.3	45.4	-	31.3	58.3	-	-		
Security credit	74.8	74.8	27.7	25.4	27.7	25.4	-	-	-	-		
Trade credit ⁵	552.5	446.4	487.4	416.2	-	22.4	487.4	363.7	-	30.1		
Taxes payable .....	.9	6.2	13.6	-1.2	-	-	-	-1.2	13.6	-	
Miscellaneous claims	835.6	839.2	470.7	115.7	82.2	16.5	388.5	99.2	-	-		
	U.S. GOVERNMENT		FINANCIAL INSTITUTIONS								REST OF THE WORLD	
			Total ⁶		Monetary authority		Commercial banks		Nonbank finance			
	A	L	A	L	A	L	A	L	A	L	A	L
Financial assets	271.6	(x)	5,155.0	(x)	193.2	(x)	1,607.8	(x)	2,927.9	(x)	467.3	(x)
Liabilities.....	(x)	1,134.0	(x)	4,936.2	(x)	193.2	(x)	1,515.6	(x)	2,807.0	(x)	552.6
Gold stock and SDR's.....	5.3	-	11.1	-	11.1	-	-	-	-	-	59.5	-
IMF position	7.4	-	(Z)	-	(Z)	-	-	-	-	-	-	7.3
Official foreign exchange	4.4	-	5.8	-	5.8	-	-	-	-	-	-	10.2
Treasury currency	-	16.5	18.4	-	18.4	-	-	-	-	-	-	-
Checkable deposits and currency	24.5	-	44.0	535.4	-	141.3	5.6	369.6	37.8	24.5	16.0	-
Time and savings accounts	1.1	-	88.6	1,716.3	-	-	-	921.0	88.6	795.2	33.9	-
Fed. funds and security RP's	-	-	51.1	145.5	-	-	-	130.3	36.9	15.1	-	-
Money market fund shares	-	-	-	206.6	-	-	-	-	-	206.6	-	-
Foreign deposits	-	-	23.8	-	-	-	-	-	23.8	-	-	35.8
Life insurance reserves	-	10.0	-	234.6	-	-	-	-	-	234.6	-	-
Pension fund reserves	-	97.9	-	833.7	-	-	-	-	-	833.7	-	-
Interbank claims	-	-	49.5	-24.9	3.5	46.0	46.0	-70.9	-	-74.0	-	-
Corporate equities ¹	-	-	427.2	89.9	-	-	.1	-	427.1	89.9	78.3	-
Credit market instruments ²	207.2	-	4,120.5	679.8	150.3	-	1,426.5	60.0	2,138.7	238.1	225.8	226.3
U.S. Treasury securities ³	-	987.7	466.9	-	139.3	-	133.5	-	190.9	-	149.4	-
Federal agency securities ⁴	-	3.4	258.6	381.6	9.5	-	78.2	-	170.0	-	-	-
State and local securities	-	-	283.1	-	-	-	158.6	-	124.5	-	-	-
Corporate and foreign bonds.....	-	-	455.7	87.5	-	-	9.2	6.8	446.5	62.1	41.4	59.7
Mortgages.....	49.4	.3	1,370.2	2.0	-	-	301.7	-	763.0	2.0	-	-
Consumer credit	-	-	372.2	-	-	-	188.4	-	183.8	-	-	-
Bank loans, n.e.c.	-	-	538.7	33.3	-	-	538.7	-	-	33.3	-	29.3
Open-market paper	-	-	130.8	109.3	1.5	-	18.1	34.6	110.8	74.7	35.0	74.9
Security credit	-	-	47.1	49.3	-	-	26.2	-	20.9	49.3	-	-
Trade credit ⁵	22.4	18.3	20.3	-	-	-	-	-	20.3	-	22.4	12.0
Taxes payable	-12.7	-	-	7.4	-	-	-	1.6	-	5.8	-	-
Miscellaneous claims	12.0	(Z)	247.7	462.6	4.1	5.9	103.4	104.1	133.8	313.9	105.3	261.0

- Represents zero. X Not applicable. Z Less than \$50 million. ¹ Assets shown at market value; nonbank finance liability is redemption value of shares of open-end investment companies. No specific liability attributed to issuers of stocks other than open-end investment companies for amounts outstanding. ² Includes "Other loans," not shown separately. ³ Includes savings bonds and other nonmarketable debt held by public. ⁴ Issues by agencies in the budget and by sponsored credit agencies in financial sectors, issues backed by mortgage pools, and loan participation certificates. ⁵ Asset is corporate only; noncorporate credit deducted in liability total to conform to quarterly flow tables. ⁶ Includes federally sponsored credit agencies and mortgage pools, not shown separately.

Source: Board of Governors of the Federal Reserve System, *Annual Statistical Digest*.

No. 828. FLOW OF FUNDS ACCOUNTS—FINANCIAL ASSETS OF FINANCIAL AND NONFINANCIAL INSTITUTIONS, BY HOLDER SECTOR: 1970 TO 1982

[In billions of dollars. As of Dec. 31. See also *Historical Statistics, Colonial Times to 1970*, series X 192, X 229, X 821, and X 835]

SECTOR	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982
All sectors	5,325.4	5,369.4	6,015.1	6,755.6	7,366.4	8,281.6	9,413.9	10,763.8	11,662.1	12,745.5
Households	2,301.9	2,206.3	2,564.3	2,905.3	3,079.8	3,373.1	3,860.8	4,555.0	4,850.8	5,394.5
Nonfinancial business	573.0	566.0	610.0	669.1	734.2	833.4	967.5	1,078.4	1,141.9	1,173.3
Farm	13.3	13.9	14.8	16.3	18.1	20.2	22.2	24.2	26.1	28.0
Nonfarm noncorporate	33.7	35.4	37.5	40.9	44.4	48.8	53.6	56.7	61.4	65.6
Nonfinancial corporations	526.0	516.7	557.6	611.9	671.7	764.4	891.6	997.5	1,054.5	1,079.7
U.S. Government	98.8	104.0	120.2	141.6	150.3	175.5	198.2	223.3	246.6	271.6
U.S. Government-sponsored credit agencies and mortgage pools	87.9	109.3	121.5	138.4	161.9	203.9	258.9	306.5	356.7	426.1
State and local government	110.7	120.2	122.6	133.6	156.6	179.7	198.6	218.6	241.6	283.9
Monetary authorities	106.9	113.4	124.6	134.5	143.0	156.2	166.7	173.8	182.0	193.2
Commercial banking ¹	728.8	799.9	834.3	905.5	1,002.9	1,146.8	1,274.5	1,386.3	1,520.7	1,607.8
Domestic commercial banks	695.8	757.1	786.0	845.4	936.3	1,056.0	1,161.4	1,244.7	1,352.2	1,459.7
Foreign banking offices in U.S.	19.1	27.6	29.2	34.5	40.2	62.0	78.5	101.2	117.3	92.3
Nonbank finance	1,112.5	1,125.3	1,282.8	1,464.9	1,639.5	1,853.6	2,088.4	2,373.6	2,640.6	2,927.9
Savings and loan assoc.	271.9	295.5	338.2	391.9	459.2	523.5	578.0	650.7	663.8	706.0
Life insurance	244.8	255.0	279.7	311.1	339.8	378.3	419.6	464.2	508.8	563.6
Other insurance	69.5	67.8	77.3	93.9	113.2	133.9	154.9	174.3	184.2	203.0
Private pension funds	134.3	115.5	146.8	171.9	178.3	198.3	222.0	286.8	293.2	344.6
Govt. retirement funds ²	84.7	88.0	104.8	120.4	132.5	153.9	169.7	198.1	221.7	280.4
Finance companies	90.8	96.0	98.8	110.7	133.4	157.5	184.8	198.6	224.9	229.6
Money market funds	—	2.4	3.7	3.7	3.9	10.8	45.2	74.4	181.9	206.6
Mutual savings banks	108.8	109.1	121.1	134.8	147.3	158.2	163.3	171.5	175.3	174.2
Investment companies	46.6	35.2	43.0	46.5	45.5	46.1	51.8	63.7	64.0	89.9
Credit unions	27.8	31.1	36.9	43.3	51.5	58.4	63.1	71.8	75.2	88.6
Security brokers, dealers	18.3	15.2	18.5	26.8	27.7	28.0	28.2	33.5	41.8	53.7
Real estate investment trusts	17.0	17.5	14.0	9.8	7.2	6.8	6.7	5.8	5.9	7.7
Rest of the world	204.9	222.0	234.7	262.8	298.1	359.3	400.3	448.2	481.2	467.3

— Represents zero. ¹ Includes other sectors not shown separately. ² State and local.

No. 829. FLOW OF FUNDS ACCOUNTS—ASSETS AND LIABILITIES OF HOUSEHOLDS: 1970 TO 1982

[As of December 31. See also *Historical Statistics, Colonial Times to 1970*, series X 114-147]

TYPE OF INSTRUMENT	TOTAL (bil. dol.)							PERCENT DISTRIBUTION		
	1970	1975	1978	1979	1980	1981	1982	1970	1980	1982
Total financial assets.....	2,301.9	2,564.3	3,373.1	3,860.8	4,555.0	4,850.8	5,394.5	100.0	100.0	100.0
Deposit and market instrument ¹	1,088.3	1,326.5	1,826.1	2,061.6	2,294.7	2,565.3	2,802.3	47.3	50.4	51.9
Checkable deposits and currency.....	156.5	170.7	228.8	250.9	261.8	287.6	312.5	6.8	5.7	5.8
Small time and savings deposits.....	579.7	710.6	988.0	1,049.7	1,129.4	1,176.0	1,297.9	25.2	24.8	24.1
Money market fund shares.....	-	3.7	10.8	45.2	74.4	181.9	206.6	-	1.6	3.8
Large time deposits.....	52.1	60.4	98.3	113.9	159.6	178.7	163.8	2.3	3.5	3.0
Credit market instruments.....	299.9	381.2	500.2	601.8	669.4	741.1	821.4	13.0	14.7	15.2
U.S. Government securities.....	112.8	152.9	211.7	264.7	293.1	329.9	360.6	4.9	6.4	6.7
Treasury issues.....	96.6	133.2	175.3	206.3	225.5	249.2	276.3	4.2	5.0	5.1
Savings bonds.....	60.4	67.4	80.7	79.9	72.5	68.2	68.3	2.6	1.6	1.3
Other Treasury.....	36.3	65.8	94.6	126.4	153.0	181.0	208.0	1.6	3.4	3.9
Agency issues.....	16.2	19.7	36.5	58.5	67.6	80.7	84.3	.7	1.5	1.6
State and local obligations.....	53.7	68.1	72.7	82.7	94.6	115.0	155.3	2.3	2.1	2.9
Corporate and foreign bonds.....	55.0	69.0	72.8	83.1	90.0	81.3	73.5	2.4	2.0	1.4
Mortgages.....	63.1	76.2	105.9	126.0	148.4	171.6	186.6	2.7	3.2	3.5
Open-market paper.....	15.3	15.1	37.1	45.3	43.3	43.4	45.4	.7	1.0	.8
Corporate equities.....	712.8	660.5	749.9	914.3	1,225.6	1,165.5	1,306.2	31.0	26.9	24.2
Mutual fund shares.....	46.6	43.0	46.1	51.8	63.7	64.0	89.9	2.0	1.4	1.7
Other corporate equities.....	666.1	617.5	703.9	862.6	1,161.9	1,101.4	1,216.3	29.0	25.5	22.5
Life insurance reserves.....	151.3	166.8	198.5	211.1	222.5	232.8	244.6	6.6	4.9	4.5
Pension fund reserves.....	310.6	365.7	531.1	598.6	727.1	793.8	931.7	13.5	16.0	17.3
Security credit.....	4.9	4.5	7.9	8.5	12.6	16.2	27.7	.2	.3	.5
Miscellaneous assets.....	34.1	40.6	59.5	66.7	72.4	77.1	82.2	1.5	1.6	1.5
Total liabilities.....	697.3	805.3	1,215.2	1,394.2	1,526.3	1,650.9	1,740.7	100.0	100.0	100.0
Credit market instruments.....	670.5	776.1	1,171.8	1,349.0	1,469.2	1,599.3	1,676.4	96.2	96.3	96.3
Mortgages.....	427.1	507.7	774.6	899.0	999.3	1,082.5	1,138.5	61.3	65.5	65.4
Installment consumer credit.....	155.1	172.3	273.6	312.0	313.5	333.4	343.4	22.2	20.5	19.7
Other consumer credit.....	48.6	50.9	64.3	71.3	74.8	80.2	84.6	7.0	4.9	4.9
Bank loans, not elsewhere classified.....	13.5	13.7	19.9	20.8	26.8	27.7	35.3	1.9	1.8	2.0
Other loans.....	26.2	31.5	39.5	45.9	54.8	65.6	74.6	3.8	3.6	4.3
Security credit.....	13.2	12.1	19.8	18.6	27.1	27.2	25.4	1.9	1.8	1.5
Trade credit.....	7.3	9.4	13.2	14.9	17.0	19.7	22.4	1.0	1.1	1.3
Unpaid life insurance premiums ²	6.4	7.7	10.3	11.7	12.9	14.7	16.5	.9	.8	.9

— Represents zero. ¹ Excludes corporate equities. ² Includes deferred premiums.

Source of tables 828 and 829: Board of Governors of the Federal Reserve System, *Annual Statistical Digest*.

No. 830. FLOW OF FUNDS ACCOUNTS—ASSETS AND LIABILITIES OF PRIVATE NONBANK FINANCIAL INSTITUTIONS, BY TYPE OF TRANSACTION: 1982

[In billions of dollars. As of Dec. 31. Preliminary. A = Assets; L = Liabilities; "N.e.c." = Not elsewhere classified; RP's = Repurchase agreements]

TYPE OF INSTRUMENT	TOTAL ¹		MUTUAL SAVINGS BANKS		SAVINGS AND LOAN ASSOCIATIONS		INSURANCE COMPANIES		PENSION FUNDS ²		FINANCE COMPANIES		MONEY MARKET FUNDS	
	A	L	A	L	A	L	A	L	A	L	A	L	A	L
Financial assets	2,927.9	x)	174.2	(x)	706.0	(x)	766.6	(x)	605.0	(x)	229.6	(x)	206.6	(x)
Liabilities	(x)	2,807.0	(x)	165.0	(x)	679.9	(x)	679.8	(x)	605.0	(x)	240.6	(x)	206.6
Checkable deposits.....	37.8	24.5	5.2	4.8	5.5	14.6	9.1	-	7.4	-	4.9	-	3	-
Time and savings accounts.....	88.6	795.2	1.8	152.3	14.0	566.2	-	-	9.3	-	-	-	40.8	-
Fed. funds, security RP's.....	36.9	15.1	5.3	-	15.4	15.1	-	-	-	-	-	-	16.2	-
Money market fund shares.....	-	206.6	-	-	-	-	-	-	-	-	-	-	206.6	-
Foreign deposits.....	23.8	-	-	-	-	-	-	-	-	-	-	-	23.8	-
Reserves:	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Life insurance.....	-	234.6	-	-	-	-	234.6	-	-	-	-	-	-	-
Pension fund.....	-	833.7	-	-	-	-	228.8	-	605.0	-	-	-	-	-
Corporate equities.....	427.1	89.9	3.2	-	-	-	100.1	-	263.3	-	-	-	-	-
Credit market instruments.....	2,138.7	238.1	151.3	-	600.4	70.4	595.8	-	318.0	-	224.7	161.3	123.7	-
Securities:	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U.S. Treasury.....	190.9	-	6.0	-	13.6	-	29.4	-	73.3	-	-	-	54.6	-
Federal agency.....	170.0	-	17.9	-	74.4	-	27.0	-	44.5	-	-	-	-	-
State and local.....	124.5	-	2.5	-	.8	-	95.1	-	3.9	-	-	-	-	-
Corporate and foreign bonds.....	446.5	62.1	18.9	-	-	3.2	225.0	-	178.3	-	-	58.2	-	-
Mortgages.....	763.0	2.0	94.5	-	482.4	-	143.7	-	18.1	-	16.5	-	-	-
Consumer credit.....	183.8	-	4.3	-	20.2	-	-	-	-	-	112.1	-	-	-
Bank loans, n.e.c.....	-	33.3	-	-	-	1.2	-	-	-	-	-	28.8	-	-
Open market paper.....	110.8	74.7	7.3	-	8.8	-	-	-	-	-	-	74.3	69.1	-
Other loans.....	149.2	66.0	-	-	-	66.0	53.1	-	-	-	96.1	-	-	-
Security credit.....	20.9	49.3	-	-	-	-	-	-	-	-	-	-	-	-
Trade credit.....	20.3	-	-	-	-	-	20.3	-	-	-	-	-	-	-
Taxes payable.....	-	5.8	-	-	-	-	5.3	-	-	-	-	5	-	-
Miscellaneous.....	133.8	313.9	7.5	7.9	70.9	14.2	41.3	211.1	7.0	-	-	78.8	1.8	-

- Represents zero or rounds to zero. X Not applicable.
trusts, and security brokers and dealers not shown separately.

¹ Includes credit unions, mutual funds, real estate investment trusts, and security brokers and dealers not shown separately.
² Retirement funds of State and local governments and private pension plans.

No. 831. FLOW OF FUNDS ACCOUNTS—CREDIT MARKET DEBT OUTSTANDING: 1970 TO 1982

[In billions of dollars. As of Dec. 31. "N.e.c." = Not elsewhere classified]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982
Credit market debt	2,184.8	2,409.6	2,624.7	2,910.6	3,291.9	3,767.5	4,259.0	4,702.7	5,200.0	5,656.1
Government.....	542.8	570.1	669.2	753.9	826.1	899.9	956.5	1,083.0	1,172.7	1,379.7
Federal.....	349.1	360.8	446.3	515.8	572.5	628.2	663.6	742.8	830.1	951.4
State and local.....	193.7	209.2	222.9	238.2	253.6	272.7	292.9	320.2	342.5	388.3
Non-government.....	1,642.1	1,839.6	1,955.5	2,156.7	2,465.8	2,868.7	3,302.5	3,639.7	4,027.4	4,276.3
Financial ¹	198.7	235.9	245.0	267.9	316.4	391.5	473.3	534.7	615.4	679.8
Sponsored credit agencies ²	59.8	77.1	80.3	82.4	88.2	111.3	135.5	159.9	190.0	203.1
Mortgage pools.....	18.0	21.5	28.5	40.7	56.9	70.4	94.8	114.0	129.0	178.5
Commercial banks ³	14.1	18.7	19.5	25.6	28.1	35.4	42.1	49.2	57.4	60.1
Savings and loan associations.....	21.7	26.5	24.2	24.3	34.2	46.5	59.9	66.6	79.8	70.4
Finance companies.....	70.7	76.2	76.7	81.2	97.9	116.2	132.7	138.9	152.9	161.3
Foreign.....	67.0	79.8	91.2	110.6	123.9	161.9	182.5	209.6	237.1	226.3
Private domestic nonfinancial.....	1,376.3	1,523.9	1,619.3	1,778.2	2,025.4	2,315.4	2,646.8	2,895.4	3,174.9	3,370.3
Corporations ¹	461.2	527.2	548.2	591.0	660.1	737.3	835.7	916.4	1,019.0	1,100.2
Bonds.....	209.9	231.2	261.0	285.3	315.5	343.3	375.6	418.2	453.9	494.1
Mortgages.....	65.9	66.8	65.9	68.3	71.9	76.1	77.5	80.0	78.9	76.8
Bank loans, n.e.c.....	150.3	181.3	172.0	175.8	196.4	226.5	269.7	295.0	337.6	382.7
Finance company loans.....	22.3	28.1	31.9	40.3	53.8	65.3	75.4	78.5	87.2	88.7
Individuals.....	915.1	986.7	1,071.1	1,187.2	1,365.4	1,578.1	1,811.1	1,979.0	2,155.9	2,270.1
By sector:	-	-	-	-	-	-	-	-	-	-
Households.....	670.5	724.2	776.1	868.5	1,004.1	1,171.8	1,349.0	1,469.2	1,589.3	1,676.4
Farm.....	66.9	74.7	83.2	93.4	105.6	120.3	141.6	156.0	172.4	181.3
Nonfarm noncorporate.....	177.7	197.8	211.9	227.3	255.6	286.0	320.4	353.8	394.3	412.4
By type of instrument:	-	-	-	-	-	-	-	-	-	-
Mortgages.....	608.2	671.5	731.7	814.4	937.5	1,083.5	1,247.5	1,380.4	1,499.5	1,573.0
Consumer credit.....	203.7	213.6	223.2	248.6	289.1	337.9	383.4	388.2	413.5	428.0
Policy loans.....	21.2	23.9	25.5	26.9	28.6	31.2	35.9	42.6	50.0	54.3
Bank loans, n.e.c.....	45.1	46.8	45.3	45.7	51.9	57.1	61.3	71.3	79.6	93.4
Other loans.....	37.0	40.9	45.4	51.6	58.2	68.4	82.9	96.4	113.3	121.4

- Represents zero. ¹ Includes other types, not shown separately. ² U.S. Government. ³ Includes bank affiliates.

Source of tables 830 and 831: Board of Governors of the Federal Reserve System, *Annual Statistical Digest*.

No. 832. FLOW OF FUNDS ACCOUNTS—CREDIT MARKET SUPPLY OF FUNDS: 1970 TO 1982

[In billions of dollars. As of December 31. Excludes corporate equities. See also *Historical Statistics, Colonial Times to 1970*, series X 64-105]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982
Credit market debt claims against nonfinancial sectors	1,919.1	2,094.0	2,288.5	2,532.1	2,851.5	3,214.3	3,603.2	3,958.4	4,347.5	4,750.0
Public agency and foreign holdings	290.4	339.1	378.8	428.6	507.7	609.5	685.8	781.6	877.5	988.4
U.S. Government securities	136.6	146.0	164.0	187.1	221.9	258.0	251.7	267.4	284.6	302.3
Residential mortgages ¹	65.7	85.6	97.3	107.7	132.0	170.2	216.4	255.3	295.0	356.8
Other loans and securities	88.0	107.5	117.4	133.9	153.8	181.3	217.6	258.9	297.9	329.3
Agency debt excluded from total ²	77.9	98.6	108.9	123.1	145.0	181.7	230.3	273.9	319.0	381.6
Foreign debt excluded from total ²	67.0	79.8	91.2	110.6	123.9	161.9	182.5	209.6	237.1	226.3
Private domestic holdings ³	1,773.6	1,933.3	2,109.8	2,337.2	2,612.8	2,948.3	3,330.2	3,660.3	4,026.1	4,369.5
U.S. Government securities	289.0	311.6	388.5	449.8	494.7	549.1	641.5	748.6	864.0	1,070.4
State and local obligations	191.2	207.7	223.8	239.5	262.9	291.3	321.1	356.9	389.8	449.4
Corporate and foreign bonds	221.3	242.3	275.1	305.6	327.8	350.2	373.9	399.7	420.4	441.8
Residential mortgages	452.9	483.6	510.4	565.7	646.8	742.3	838.6	908.6	987.9	1,057.4
Other mortgages and loans	634.4	710.0	729.8	792.6	900.7	1,048.2	1,201.0	1,295.3	1,449.2	1,516.8
Private financial intermediation:										
Claims held by institutions ⁴	1,491.6	1,617.3	1,742.0	1,932.8	2,195.1	2,497.8	2,788.1	3,048.3	3,350.2	3,655.2
Commercial banking	652.9	719.7	749.1	808.7	896.3	1,025.0	1,143.9	1,243.6	1,347.1	1,426.5
Savings institutions	376.3	399.7	452.5	522.6	604.2	677.8	738.4	787.4	812.0	816.0
Insurance and pension funds	345.9	375.7	416.3	466.0	535.0	610.0	676.4	750.7	826.6	913.8
Sources of funds:										
Domestic deposits ⁵	906.3	973.9	1,068.1	1,192.6	1,330.7	1,471.8	1,612.9	1,785.0	1,996.3	2,160.2
Credit market debt	120.8	137.3	136.2	144.9	171.4	200.8	243.0	260.8	296.4	298.2
Insurance and pension reserves	282.0	312.6	341.5	374.1	425.6	484.2	532.4	596.7	668.4	746.4
Private domestic nonfinancial investors:										
Credit market claims ⁴	402.9	453.2	504.0	549.1	589.2	660.2	785.1	872.8	972.4	1,102.5
U.S. Government securities	152.7	172.1	197.5	213.9	236.0	274.3	337.4	375.8	426.1	497.8
State and local obligations	59.8	69.1	77.5	80.8	81.5	83.6	93.2	105.5	125.7	166.3
Corporate and foreign bonds	55.0	60.1	69.0	80.7	75.7	72.8	83.1	90.0	81.3	73.5
Open-market paper	30.2	36.0	34.7	36.6	46.2	61.9	74.0	70.9	73.0	76.7
Deposits and currency ⁴	971.4	1,047.0	1,148.2	1,281.6	1,429.4	1,582.4	1,732.9	1,916.4	2,137.5	2,307.5
Small time and savings deposits	579.7	614.2	711.5	835.2	928.6	992.4	1,053.5	1,132.8	1,179.5	1,302.9
Money market fund shares	-	2.4	3.7	3.7	3.9	10.8	45.2	74.4	181.9	206.6
Large time deposits	113.1	143.9	129.9	117.9	143.8	190.4	210.3	258.5	294.8	289.7
Checkable deposits	199.8	201.9	211.3	221.8	238.2	254.5	273.6	282.3	300.6	317.7
Currency	61.8	68.1	74.3	81.8	89.9	99.2	107.1	117.4	126.9	135.4

- Represents zero. ¹ Includes Federal Home Loan Bank advances to savings and loan associations. ² Debt of sponsored agencies and mortgage pool securities are excluded from debt of nonfinancial sectors but included in holdings of debt claims below. ³ Claims held by private financial institutions, less sources of funds of credit market debt, plus private domestic nonfinancial investors credit market claims, less FHLB advances. ⁴ Includes other types, not shown separately. ⁵ Includes repurchase agreements.

Source: Board of Governors of the Federal Reserve System, *Annual Statistical Digest*.

No. 833. USES AND SOURCES OF FUNDS—SUMMARY: 1970 TO 1982

[In billions of dollars, except percent. Minus sign (-) denotes decline in holdings of source. See tables 827-832 for related data on financial flows]

USE AND SOURCE	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982
Uses, funds raised	95.1	189.5	205.2	265.9	338.5	389.7	403.0	389.7	390.3	405.2
Investment funds	69.8	116.4	123.6	143.5	186.4	219.1	235.7	232.2	191.7	198.5
Short-term funds	18.6	62.9	3.5	63.0	100.5	123.8	137.3	81.6	120.6	55.0
U.S. securities, privately held	6.9	10.2	78.1	59.4	51.5	46.8	29.9	75.7	78.0	151.7
Less: Financial intermediaries, funds raised	12.4	24.0	5.8	15.5	28.7	47.6	50.3	37.5	57.4	23.9
Sources, gross funds supplied	107.6	213.5	211.0	281.4	367.2	437.3	453.2	427.2	447.7	429.1
Commercial banks	37.1	64.6	31.5	66.3	89.9	125.9	120.3	100.5	108.7	96.0
Percent of funds supplied	34.5	30.3	14.9	23.6	24.5	28.8	26.5	23.5	24.3	22.4
Insurance companies	13.0	19.6	25.1	39.2	48.7	53.0	51.2	48.4	50.7	53.4
Private noninsured pension funds	7.7	7.9	14.1	12.5	16.5	16.0	15.9	20.8	21.5	25.2
State and local government retirement funds	6.1	8.0	11.5	12.4	13.9	14.3	19.4	23.4	23.2	29.4
Savings and loan associations	12.7	19.7	36.2	51.8	61.3	56.7	51.5	42.1	23.8	18.6
Mutual savings banks	4.1	3.4	10.9	12.5	11.7	8.6	4.8	5.3	-	-
Credit unions	1.6	3.0	5.0	6.8	8.2	8.3	2.0	-2.2	-8	1.5
Investment companies	1.9	1.9	3.1	1.4	3.4	5.2	22.4	22.5	72.9	51.7
Other financial intermediaries	3.7	4.3	-	10.5	20.7	22.4	21.7	13.9	21.7	4
Business	4.1	13.1	12.9	18.1	16.4	11.0	26.7	15.3	10.9	11.1
Government	10.7	16.4	21.4	14.9	15.8	28.4	34.1	39.8	32.8	34.3
Foreign investors	10.5	12.2	10.4	17.9	42.2	40.4	-3.2	28.2	21.9	27.4
Individuals and others	-5.8	39.3	29.0	17.2	21.6	47.1	66.4	69.2	56.8	80.9
Total net sources	95.1	189.5	205.2	265.9	338.5	389.7	403.0	389.7	390.3	405.2

- Represents zero.

Source: Donald Woolley and Beverly Lowen, *Credit and Capital Markets*, 1983, Bankers Trust Company, New York, N.Y.

NO. 834. FEDERAL RESERVE BANKS—ASSETS, LIABILITIES, AND CAPITAL ACCOUNTS: 1970 TO 1982

[In billions of dollars. As of December 31. See also *Historical Statistics, Colonial Times to 1970*, series X 796-805]

ITEM	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Assets	85.9	103.1	110.6	120.4	129.3	137.8	151.1	160.8	168.5	174.8	186.9
U.S. Government securities ¹	62.1	80.5	² 85.7	² 94.1	² 104.1	² 111.3	118.6	126.2	130.6	140.4	148.8
Gold certificate reserves.....	10.5	11.5	11.7	11.6	11.6	11.7	11.7	11.1	11.2	11.2	11.2
Special drawing rights.....	.4	.4	.4	.5	1.2	1.3	1.3	1.8	2.5	3.3	4.6
Coin and collection items.....	11.4	8.2	8.6	9.2	8.2	9.9	13.2	14.0	12.9	8.9	10.3
Loans and acceptances.....	.4	1.3	1.3	1.4	1.0	1.2	1.8	2.1	2.6	1.8	2.2
Other assets.....	1.1	1.2	3.2	3.3	3.2	2.4	4.5	5.6	8.7	9.2	9.9
Liabilities and capital accounts	85.9	103.1	110.8	120.4	129.3	137.8	151.1	160.8	168.5	174.8	186.9
Federal Reserve notes.....	50.3	64.3	70.9	77.2	83.7	93.2	103.3	113.3	124.2	131.9	142.0
Deposits.....	26.7	31.3	30.6	34.8	37.3	35.6	37.0	35.7	31.5	30.8	32.9
Deferred availability cash items.....	6.9	4.9	6.3	5.5	5.2	5.8	6.5	6.8	8.1	6.8	7.0
Other, and accrued dividends.....	.6	1.0	1.1	1.1	1.1	1.2	2.1	2.7	2.3	2.7	2.3
Capital accounts.....	1.4	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.6	2.7

¹ Includes securities loaned, fully secured by U.S. Government securities pledged with Federal Reserve banks.² Excludes securities sold and scheduled to be bought back under matched sale-purchase transactions.Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

NO. 835. FEDERAL RESERVE MEMBER BANKS—REVENUE AND EXPENSES: 1970 TO 1982

[Includes one member bank in the Virgin Islands]

ITEM	Unit	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Member banks	Number.....	5,769	5,737	5,782	5,790	5,760	5,669	5,564	5,425	5,422	5,474	5,619
Current revenue.....	Bil. dol.....	27.9	41.7	53.8	51.4	63.6	70.5	89.1	118.9	150.6	196.6	202.2
Expenses.....	Bil. dol.....	22.2	35.0	46.8	44.4	55.9	61.7	77.8	105.8	136.5	181.9	188.3
Net current earnings.....	Bil. dol.....	5.7	6.7	7.0	7.0	7.7	8.8	11.3	13.1	14.2	14.7	14.0
Net income.....	Bil. dol.....	3.8	5.0	5.4	5.5	5.9	6.6	7.8	9.2	9.9	10.6	10.7
Cash dividends declared.....	Bil. dol.....	1.8	2.0	2.3	2.5	2.5	2.6	2.9	3.5	3.9	4.4	4.9
Capital accounts ¹	Bil. dol.....	33.0	42.9	46.2	50.0	50.6	56.6	61.5	67.1	73.7	80.9	88.7
Ratios to avg. capital accounts:												
Net current earnings.....	Percent.....	17.4	15.6	15.2	13.9	15.2	15.6	18.4	19.5	19.2	18.2	15.8
Net income.....	Percent.....	11.6	11.7	11.6	11.1	11.5	11.7	12.8	13.7	13.4	13.1	12.1
Cash dividends declared.....	Percent.....	5.3	4.7	4.9	5.0	4.8	4.8	4.8	5.2	5.3	5.5	5.5

¹ Averages of amounts reported for varying call dates; for details, see source.Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

NO. 836. FEDERAL RESERVE SYSTEM—RESERVES OF DEPOSITORY INSTITUTIONS: 1970 TO 1982

[In billions of dollars. As of December; averages of daily figures]

ITEM	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Factors supplying reserve funds:											
Federal Reserve bank credit outstanding ¹	66.7	85.6	94.0	99.7	107.6	116.4	129.3	140.0	143.3	151.9	159.7
U.S. Government securities ²	61.7	79.7	86.7	92.1	100.3	107.9	117.3	126.3	127.9	137.8	146.4
Floater.....	3.6	3.4	2.7	3.0	3.6	5.3	7.4	6.5	5.8	3.4	2.8
Other Federal Reserve assets.....	1.4	2.4	4.6	4.5	3.2	3.1	4.6	7.2	9.6	10.7	10.5
Gold stock.....	11.1	11.6	11.6	11.6	11.6	11.7	11.6	11.1	11.2	11.2	11.1
Special drawing rights accounts.....	.4	.4	.4	.5	1.2	1.2	1.3	1.8	3.3	3.3	4.4
Treasury currency outstanding.....	7.1	8.7	9.2	10.1	10.9	11.4	11.8	12.9	13.4	13.7	13.8
Factors absorbing reserve funds:											
Currency in circulation.....	57.0	71.6	79.0	85.8	93.7	102.9	113.4	123.8	135.7	143.7	154.3
Treasury cash holdings.....	.4	.3	.2	.5	.5	.4	.3	.4	.4	.4	.4
Deposits with Federal Reserve banks ³	1.7	3.0	3.0	5.1	7.4	6.6	5.0	3.6	3.5	3.9	4.1
Other Federal Reserve accounts.....	2.3	2.9	3.3	3.2	3.2	3.7	4.3	5.3	4.9	5.9	5.4
Reserve balances ⁴	29.3	⁵ 35.1	36.9	35.0	35.1	36.5	41.6	44.1	40.1	41.9	41.9
With Federal Reserve banks ⁶	23.9	28.4	29.8	27.2	28.4	27.1	31.2	32.6	26.7	26.2	24.8
Currency and coin.....	5.3	6.6	7.2	7.8	6.5	9.4	10.3	11.3	13.3	15.8	17.0
Required reserves.....	29.0	34.6	36.6	34.7	35.0	36.3	41.4	43.6	40.1	41.6	41.4
Excess reserves.....	.3	⁶ 3.3	.3	.3	.2	.2	.1	.5	(2)	.3	.5
Free reserves ⁷	(-2)	-1.0	-4	.1	.1	-4	-7	-1.0	-1.6	-3	.5

² Less than \$50 million.¹ Includes industrial loans and acceptances, when held.² Includes Federal agency obligations.³ Other than member bank reserves. ⁴ Beginning with week ending Nov. 19, 1975, adjusted to include waivers of penalties for reserve deficiencies in accordance with Board policy of permitting transitional relief when a nonmember bank merges with a member bank, or when a nonmember bank joins the Federal Reserve System. ⁵ Includes \$81 million of reserve deficiencies for which Federal Reserve banks are allowed to waive penalties for a transition period. Transition period ended after second quarter 1974. ⁶ Beginning 1979, includes reserves of all depository institutions. ⁷ Excess less borrowings.Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly, and *Annual Statistical Digest*.

NO. 837. BANKING OFFICES, BY DEPOSIT INSURANCE STATUS: 1970 TO 1982

[As of December 31. Includes Puerto Rico and outlying areas. Beginning 1982 excludes automatic teller machines that were previously being reported by many banks as branches. See also *Historical Statistics, Colonial Times to 1970*, series X 716-724]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982
All banking offices.....	37,166	45,308	47,239	48,653	50,695	52,608	54,926	57,232	59,348	57,913
Commercial banks, total.....	35,585	43,186	44,917	46,100	47,914	49,602	51,588	53,649	55,749	54,829
Member, Federal Reserve										
System.....	21,989	25,779	26,526	27,154	27,904	28,456	29,163	29,985	31,414	30,821
National banks.....	17,191	20,498	21,073	21,459	22,294	22,731	23,307	24,217	25,221	24,667
State banks.....	4,798	5,281	5,453	5,695	5,610	5,725	5,856	5,768	6,193	6,054
Nonmember banks.....	13,596	17,407	18,391	18,946	20,010	21,146	22,425	23,664	24,335	23,908
Insured.....	13,332	17,080	18,043	18,578	19,619	20,730	21,993	23,186	23,788	23,314
Noninsured.....	264	327	348	368	391	416	432	478	547	594
Mutual savings banks, total.....	1,581	2,122	2,322	2,553	2,781	3,006	3,338	3,583	3,599	3,084
Insured.....	1,223	1,707	1,897	2,125	2,302	2,517	2,840	3,068	3,217	2,733
Noninsured.....	358	415	425	428	479	489	498	517	382	351

Source: U.S. Federal Deposit Insurance Corporation, *Annual Report*.

NO. 838. CHANGES IN NUMBER OF OPERATING BANKING OFFICES: 1970 TO 1982

[As of December 31. Includes Puerto Rico and outlying areas. Minus sign (–) indicates decrease]

TYPE OF CHANGE	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982
Banking offices ¹.....	37,166	45,308	47,239	48,653	50,695	52,608	54,926	57,232	59,348	57,913
Number of banks.....	14,199	14,961	15,130	15,170	15,207	15,206	15,201	15,330	15,355	15,412
Number of branches ¹	22,967	30,347	32,109	33,483	35,488	37,402	39,725	41,902	43,993	42,501
Net change during year.....	1,584	2,422	1,931	1,414	2,041	1,909	2,318	2,306	2,116	– 1,435
Offices opened.....	1,864	2,730	2,224	1,819	2,524	2,426	2,891	2,800	2,901	2,387
Banks.....	186	408	277	193	206	184	239	271	285	379
Branches.....	1,678	2,322	1,947	1,626	2,318	2,242	2,652	2,529	2,636	2,008
Offices closed.....	280	308	293	405	483	517	573	494	785	3,822
Banks.....	165	123	108	153	169	185	244	142	240	322
Branches.....	115	185	185	252	314	332	329	352	545	2 3,500

¹ See headnote, table 837.

² Includes 3,000 automatic teller machines that were previously reported as branches.
Source: U.S. Federal Deposit Insurance Corporation, *Annual Report*.

NO. 839. CHANGES IN COMMERCIAL BANKING STRUCTURE: 1953 TO 1982

[Minus sign (–) indicates decrease]

CHANGE	1953–1982	1969 and 1970	1971 and 1972	1973 and 1974	1975 and 1976	1977 and 1978	1979 and 1980	1981 and 1982
All commercial banks:								
Number of banks, beginning of period.....	14,074	13,678	13,686	13,927	14,458	14,671	14,711	14,836
New banks organized.....	5,780	319	472	752	484	380	500	643
Mergers and absorptions.....	– 4,629	– 297	– 218	– 214	– 234	– 330	– 306	– 505
Voluntary liquidations, suspensions.....	– 265	– 14	– 13	– 7	– 17	– 10	– 69	– 14
Number of banks, end of period.....	14,960	13,686	13,927	14,458	14,671	14,711	14,836	14,960
Net change in banks.....	886	8	241	531	213	40	125	124
Number of branches, end of period.....	39,532	21,644	24,811	28,432	31,119	34,579	38,492	39,532
Net change in branches.....	34,006	2,631	2,967	3,821	2,667	3,460	3,913	1,040

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly; *Annual Statistical Digest*, and unpublished data.

NO. 840. BANKS CLOSED DUE TO FINANCIAL DIFFICULTIES: 1941 TO 1982

[Prior to 1959, excludes Alaska and Hawaii. Banks are closed either permanently or temporarily by order of supervisory authorities or by directors of banks. See *Historical Statistics, Colonial Times to 1970*, series X 741, 748, 756, and 761]

ITEM	Unit	1941–1950	1951–1960	1961–1970	1971–1980	1977	1978	1979	1980	1981	1982
Total banks.....	Number.....	73	43	63	83	6	7	10	10	10	42
Insured.....	Number.....	61	28	50	79	6	7	10	10	10	42
Noninsured.....	Number.....	12	15	13	4	–	–	–	–	–	–
Deposits.....	\$1,000.....	102,618	114,972	342,360	5,371,655	205,208	854,154	110,696	216,300	3,825,944	9,908,379
Insured.....	\$1,000.....	99,276	104,610	334,570	5,290,491	205,208	854,154	110,696	216,300	3,825,944	9,908,379
Noninsured.....	\$1,000.....	3,342	10,362	7,790	81,164	–	–	–	–	–	–

– Represents zero.

Source: U.S. Federal Deposit Insurance Corporation, *Annual Report*.

NO. 841. COMMERCIAL BANKS—ASSETS AND LIABILITIES: 1970 TO 1982

[In billions of dollars, except number of banks. As of Dec. 31. Includes noninsured nondeposit trust companies. Includes outlying areas. Beginning 1980, excludes American branches of foreign banks. See *Historical Statistics, Colonial Times to 1970*, series X 588-609, for related data]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982
Number of banks.....	13,705	14,488	14,657	14,698	14,738	14,741	14,738	14,704	14,718	14,753
Assets.....	581.5	927.5	974.7	1,040.1	1,176.6	1,329.0	1,437.7	1,543.5	1,692.3	1,878.3
Securities, total ¹	148.5	198.9	230.8	253.2	261.0	272.0	287.8	326.0	342.4	375.4
U.S. Treasury.....	59.3	52.3	81.6	98.0	97.0	90.6	88.8	104.5	103.5	118.7
Obligations of States and subdivisions.....	67.9	97.6	101.6	103.3	113.7	124.6	133.3	146.5	151.4	154.9
Federal funds sold and securities purchased ²	16.3	40.1	39.3	48.5	54.2	55.0	63.5	71.4	91.2	103.6
Loans, gross.....	300.4	514.2	512.5	552.1	632.3	737.6	813.8	841.8	932.5	1,033.4
Commercial and industrial loans.....	113.4	186.6	181.0	185.1	207.3	236.9	265.8	283.3	329.7	382.7
Real estate loans.....	73.3	132.1	136.5	151.2	179.0	214.0	245.2	263.6	284.0	300.3
Construction and land development.....	(³)	(³)	(³)	17.3	21.4	27.3	32.9	36.8	45.1	52.4
Secured by farmland.....	4.4	6.0	6.4	6.7	7.8	8.5	8.6	8.7	8.4	8.4
Secured by residential properties.....	45.6	82.4	83.1	85.9	101.9	124.4	143.9	154.1	163.1	167.2
Secured by other properties.....	23.3	43.7	46.9	41.3	47.9	53.8	59.7	63.9	67.4	72.3
Loans to financial institutions ⁴	18.6	47.7	42.5	42.7	43.9	55.5	48.9	46.7	57.1	73.6
Securities loans (dealers and other).....	9.8	9.2	11.1	15.4	17.4	14.9	13.6	12.5	15.3	13.7
Loans to farmers (excl. real estate).....	11.2	18.2	20.2	23.2	25.7	28.3	31.1	31.6	33.0	36.2
Other loans to individuals.....	66.3	104.0	107.6	119.3	141.5	167.9	187.9	181.7	186.8	193.0
All other loans (incl. overdrafts).....	7.7	14.3	13.6	15.1	17.5	20.1	21.3	22.1	26.6	33.7
Net loans.....	(X)	(X)	(X)	533.2	610.5	711.9	784.6	812.2	902.0	1,001.8
Cash, balances with banks, etc.....	94.0	128.8	134.5	136.8	170.1	188.5	198.9	202.3	197.3	211.2
Other.....	22.4	48.4	57.7	68.4	80.9	101.4	102.6	131.7	159.4	186.3
Liabilities and equity capital.....	581.5	927.5	974.7	1,040.1	1,176.6	1,329.0	1,437.7	1,543.5	1,692.3	1,878.3
Deposits.....	485.5	753.6	792.9	845.1	947.1	1,043.3	1,108.7	1,194.0	1,277.8	1,406.1
Demand.....	249.0	317.5	325.5	358.0	384.9	408.5	435.0	433.1	385.5	372.2
Time and savings.....	236.5	436.1	467.4	506.4	562.2	634.7	673.7	760.9	892.3	1,034.0
Business and personal.....	397.3	608.9	652.9	704.8	788.3	875.0	940.8	1,029.2	1,126.1	1,236.3
Government.....	49.7	74.6	71.1	72.3	85.1	88.8	87.2	84.8	86.1	90.5
Domestic interbank.....	29.2	46.0	45.3	45.6	60.4	67.1	69.3	79.6	65.6	79.4
Foreign government and bank.....	9.3	24.2	23.5	22.4	13.3	12.3	11.1			
Miscellaneous liabilities.....	46.5	101.2	103.3	116.7	143.4	191.2	225.2	235.6	289.6	336.1
Subordinated notes and debentures.....	2.2	4.4	4.6	5.3	5.8	5.9	6.0	6.3	6.3	6.9
Equity capital.....	41.0	59.6	64.9	73.1	80.3	88.6	97.8	108.1	118.6	129.2
Stock.....	11.4	14.9	15.7	16.4	17.4	18.5	20.6	22.0	23.8	25.1
Surplus.....	18.2	25.5	26.9	29.3	31.7	33.7	35.5	37.9	40.4	43.4
Undivided profits and reserve.....	11.4	19.1	22.3	27.4	31.2	36.4	41.8	48.2	54.4	60.7

X Not applicable. ¹ Includes other categories not shown separately. ² Under agreements to resell. ³ Prior to 1976, included in other categories of real estate loans. ⁴ Includes loans to foreign banks.

Source: U.S. Federal Deposit Insurance Corporation, *Assets and Liabilities: Commercial and Mutual Savings Banks*, semiannual; beginning 1978, *Annual Report* and unpublished data.

NO. 842. COMMERCIAL BANKS—SUMMARY, BY CLASS OF BANK: 1970 TO 1981

[As of Dec. 31. Member, nonmember refers to Federal Reserve System. See *Historical Statistics, Colonial Times to 1970*, series X 717-721, for related data on banking offices]

ITEM	Total	Na- tional	State member	NONMEMBER		ITEM	Total	National	State member	NONMEMBER	
				In- sured	Nonin- sured					In- sured	Nonin- sured
Number of banks:						Assets (bil. dol.):					
1970.....	13,687	4,621	1,147	7,735	184	1970.....	577.0	340.8	125.5	106.5	4.4
1975.....	14,632	4,744	1,046	8,585	257	1975.....	965.2	553.3	180.5	210.9	20.5
1980.....	14,836	4,425	997	9,000	414	1980 ¹	1,530.0	869.6	267.2	389.9	3.4
1981.....	14,862	4,454	1,020	8,927	481	1981 ¹	1,678.8	960.0	288.1	427.7	3.0
1982.....	14,963	4,579	1,040	8,818	526	1982 ¹	1,863.3	1,070.0	328.8	462.4	2.1
Banking offices:						Demand deposits					
1970.....	35,330	17,157	4,802	13,139	232	(bil. dol.):					
1975.....	44,599	21,022	5,361	17,819	307	1970.....	247.9	145.1	58.5	42.5	1.7
1980.....	53,189	24,045	5,756	22,923	465	1975.....	323.6	183.9	67.7	68.1	3.9
1981.....	55,287	25,052	6,183	23,512	540	1980 ¹	430.7	237.6	90.0	102.6	.4
1982.....	54,444	24,741	6,013	23,106	584	1981.....	384.0	217.7	73.6	91.8	.9
Gross loans						1982 ¹	370.2	210.8	70.9	88.1	.4
(bil. dol.):						Time and savings					
1970.....	303.0	178.0	64.7	52.6	7.6	deposits					
1975.....	546.5	315.7	100.8	118.6	11.3	(bil. dol.):					
1980 ¹	835.2	480.9	135.3	218.0	1.0	1970.....	233.9	138.5	42.9	51.5	.8
1981 ¹	926.7	533.6	157.1	235.1	.9	1975.....	462.9	263.7	75.7	115.9	7.7
1982 ¹	1,026.0	598.2	177.6	249.7	.5	1980 ¹	752.7	414.2	101.1	236.5	.8
						1981.....	882.7	487.3	119.8	274.8	.8
						1982 ¹	1,023.7	568.3	144.6	310.4	.4

¹ Excludes branches of foreign banks.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

NO. 843. INSURED COMMERCIAL BANKS—ASSETS AND LIABILITIES, STATES AND OTHER AREAS: 1982

[In millions of dollars, except number of banks. As of December 31. Excludes foreign branches of U.S. banks]

STATE OR OTHER AREA	Number of banks	Total assets	SELECTED ASSETS					SELECTED LIABILITIES			
			Total securities	Gross loans and Federal funds sold	Gross loans			Equity capital	Deposits		
					Total	Commercial and Industrial	Real estate		Total	Demand	Time and savings
Total.....	14,452	1,876,159	374,974	1,136,015	1,032,802	382,481	300,139	128,902	1,405,237	371,737	1,033,502
U.S.	14,436	1,861,196	373,409	1,128,398	1,025,592	379,581	298,161	128,415	1,393,695	369,926	1,023,771
Ala.....	294	20,280	6,209	11,155	9,687	2,932	2,929	1,647	16,470	4,366	12,104
Alaska.....	14	3,373	926	1,760	1,630	579	798	305	2,870	943	1,727
Ariz.....	30	16,619	2,645	10,210	10,094	2,845	939	13,339	3,664	9,735	2,653
Ark.....	260	13,619	3,805	8,249	8,944	2,219	1,080	11,317	2,603	8,664	124,730
Calif.....	361	216,356	21,043	149,195	140,860	46,278	53,578	12,170	166,278	40,548	124,730
Colo.....	374	20,091	3,295	13,197	11,658	4,178	3,441	1,467	16,182	5,434	10,749
Conn.....	54	16,110	2,772	10,316	9,535	3,125	3,351	975	13,020	4,686	8,334
Del.....	27	7,438	1,471	4,998	4,624	1,371	1,025	794	4,966	840	4,126
D.C.....	17	8,526	1,751	4,958	4,503	1,517	1,721	628	6,539	2,273	4,266
Fla.....	477	59,373	15,638	32,950	28,136	6,782	11,409	4,063	49,160	14,256	34,904
Ga.....	416	29,982	7,000	17,910	15,212	4,683	4,093	2,103	23,067	7,690	15,377
Hawaii.....	10	6,111	1,133	3,849	3,675	1,075	1,602	391	5,445	1,405	4,040
Idaho.....	27	5,884	1,208	3,674	3,514	979	993	373	4,815	972	3,843
Ill.....	1,250	130,219	27,882	82,939	77,172	34,517	18,625	9,061	91,836	22,723	69,113
Ind.....	400	36,268	9,688	20,706	18,414	4,340	7,317	2,608	29,846	6,053	23,793
Iowa.....	643	25,468	8,164	14,203	12,142	2,625	3,234	2,023	21,473	3,964	17,609
Kans.....	620	19,619	5,970	11,416	9,663	2,820	2,019	1,615	16,549	3,711	12,838
Ky.....	342	23,445	6,533	14,023	11,554	3,086	3,695	1,873	18,689	4,749	14,150
La.....	278	30,829	8,636	18,096	15,930	5,763	5,072	2,426	25,672	7,316	18,556
Maine.....	35	3,890	1,071	2,266	2,033	596	825	271	3,215	766	2,429
Md.....	91	19,362	4,450	10,695	9,475	2,443	4,185	1,317	14,865	4,538	10,327
Mass.....	136	36,234	7,325	20,651	18,630	6,337	4,709	2,240	25,662	8,779	16,783
Mich.....	374	56,621	11,727	32,223	29,821	9,655	11,624	3,703	48,020	8,943	37,077
Minn.....	759	36,769	8,548	22,178	20,435	6,984	6,077	2,537	28,005	6,785	21,220
Miss.....	167	13,650	4,278	7,682	6,931	1,785	2,320	1,012	11,531	2,610	8,922
Mo.....	732	40,975	10,270	23,942	19,330	5,999	6,238	2,882	31,475	8,945	22,530
Mont.....	166	6,207	1,572	3,811	3,554	1,217	874	473	5,291	1,098	4,193
Nebr.....	461	13,964	3,470	8,562	7,145	1,656	944	1,118	11,429	2,858	8,571
Nev.....	13	4,584	756	2,578	2,422	584	1,163	342	3,933	1,195	2,738
N.H.....	71	3,986	822	2,689	2,466	603	1,141	291	3,459	693	2,766
N.J.....	148	41,732	10,573	24,097	21,430	6,498	9,019	2,547	34,557	10,189	24,368
N. Mex.....	92	7,766	1,898	4,739	4,035	1,558	1,041	539	6,629	1,559	5,070
N.Y. ¹	205	326,416	42,011	192,603	179,422	66,754	25,727	23,946	181,626	64,582	127,044
N.C.....	69	29,810	7,427	17,094	14,247	5,420	4,008	1,870	21,847	5,885	15,961
N. Dak.....	176	5,764	1,795	3,313	2,949	862	669	459	5,040	927	4,113
Ohio.....	355	62,434	15,210	34,885	31,014	9,084	10,900	4,803	47,555	10,715	36,840
Ola.....	509	29,628	7,301	18,689	16,287	5,482	4,077	2,142	25,039	6,230	18,810
Oreg.....	88	14,178	2,224	8,779	8,108	2,879	2,750	905	11,492	2,545	8,947
Pa.....	340	96,577	24,964	53,646	49,763	17,595	15,510	6,340	73,344	16,461	56,883
R.I.....	15	7,757	1,087	4,840	4,686	1,535	2,009	434	5,874	1,181	4,693
S.C.....	78	10,267	3,058	5,655	4,646	1,242	1,280	725	8,300	2,641	5,659
S. Dak.....	152	8,783	1,748	6,266	6,017	770	688	742	6,703	859	5,844
Tenn.....	346	28,086	6,683	16,770	14,540	4,848	4,490	1,951	22,893	5,331	17,562
Tex.....	1,598	152,838	32,611	95,834	86,965	43,293	20,506	10,518	120,293	34,554	85,739
Utah.....	61	7,991	1,256	5,034	4,482	1,291	1,886	523	6,529	1,665	4,864
Vi.....	27	2,870	528	2,026	1,893	393	1,068	186	2,547	457	2,090
Va.....	202	29,834	6,384	19,004	17,435	4,593	6,412	1,991	24,344	5,827	18,517
Wash.....	100	24,508	3,284	16,656	15,407	6,244	4,663	1,426	19,622	4,897	14,725
W. Va.....	241	11,951	4,187	6,689	5,577	856	2,457	1,027	9,943	1,856	8,087
Wis.....	624	30,026	7,850	18,178	17,326	4,526	7,141	2,256	24,340	5,337	19,003
Wyo.....	111	4,108	1,074	2,503	2,175	807	599	359	3,588	852	2,736
P.R. ²	14	13,098	1,535	6,186	5,785	2,049	1,689	477	10,695	1,647	9,048
Guam ³ and Samoa.....	2	1,125	13	1,032	1,026	752	44	10	163	52	111
V.I. ⁴	-	740	17	399	399	99	245	-	684	112	572

- Represents zero. ¹Includes data for 17 insured branches operated by 3 State nonmember banks in Puerto Rico.²Includes data for 28 insured branches operated by 2 national banks in New York, a national bank in California, and a national bank in Illinois. ³Consists of data for 18 insured branches located in Guam operated by 2 State nonmember banks in Hawaii, 1 State nonmember bank in Guam, 3 State nonmember banks and a national bank in California, 2 national banks in New York, and 1 national bank in Texas.⁴Consists of data for 24 insured branches operated by 2 national banks in New York, a national bank in California, and a national bank in Pennsylvania, and a nonmember bank in Puerto Rico.

Source: U.S. Federal Deposit Insurance Corporation, unpublished data.

NO. 844. LARGEST COMMERCIAL BANKS—FINANCIAL DATA, BY RANK OF ASSETS: 1970 TO 1982

[In billions of dollars, except percent. As of December 31]

ASSET GROUP	ASSETS					DEPOSITS				
	1970	1975	1980	1981	1982	1970	1975	1980	1981	1982
Total of 50 largest.....	220.0	348.0	569.9	621.8	704.5	173.9	265.9	379.0	394.4	379.0
Percent of all commercial banks.....	34.3	35.7	33.7	33.2	33.7	32.2	33.5	30.6	29.8	30.6
Lowest ten.....	16.4	23.0	40.5	43.6	50.5	13.5	17.8	27.8	27.4	27.8
Second ten.....	19.5	28.7	47.0	51.3	58.5	16.4	22.1	28.9	35.5	28.9
Third ten.....	24.2	34.1	58.9	67.5	75.6	20.0	25.8	40.2	40.4	40.2
Fourth ten.....	42.4	67.2	110.3	126.8	139.1	33.6	51.7	76.5	81.4	76.5
Highest ten.....	117.4	195.0	313.2	332.6	380.8	90.5	148.5	205.6	209.7	205.6
Percent of total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Lowest ten.....	7.4	6.6	7.1	7.0	7.1	7.7	6.7	7.3	6.9	7.3
Second ten.....	8.9	8.2	8.2	8.2	8.3	9.4	8.3	7.6	9.0	7.6
Third ten.....	11.0	9.8	10.3	10.8	10.7	11.5	9.7	10.6	10.2	10.6
Fourth ten.....	19.3	19.3	19.3	20.3	19.7	19.3	19.4	20.1	20.6	20.1
Highest ten.....	53.4	56.1	54.9	53.4	54.0	52.0	55.9	54.2	53.1	54.2

Source: U.S. Federal Deposit Insurance Corporation, unpublished data.

NO. 845. INSURED COMMERCIAL BANKS—SELECTED MEASURES OF FINANCIAL CONDITION:
1975 TO 1982

[As of December 31]

ITEM	Unit	1975	1976	1977	1978	1979	1980	1981	1982
Number of banks.....	Number.....	14,467	14,494	14,439	14,372	14,364	14,435	14,415	14,452
Equity and debt capital.....	Bil. dol.....	70.3	77.4	85.1	93.2	103.3	114.1	124.8	136.2
Equity capital to total assets.....	Percent.....	6.1	6.1	5.9	5.8	5.7	5.8	5.8	5.9
Equity capital to total deposits.....	Percent.....	8.5	7.3	7.1	7.1	7.1	7.3	7.4	7.6
Debt capital to total capital.....	Percent.....	6.3	6.7	6.9	6.6	6.1	5.7	5.2	5.7
Total capital to total assets.....	Percent.....	6.5	6.6	6.4	6.2	6.1	6.2	6.2	6.2
Total capital to total liabilities.....	Percent.....	6.9	7.0	6.8	6.8	6.5	6.6	6.6	6.6
Total capital to risk assets.....	Percent.....	9.0	9.1	8.8	8.5	8.3	8.4	8.2	8.2
Total loans, excluding Federal funds.....	Bil. dol.....	579.4	626.9	722.4	828.5	931.2	1,002.5	912.3	1,208.1
Total loans to deposits.....	Percent.....	63.4	63.2	64.7	67.4	68.4	67.7	70.2	70.8
Net loan losses to average total loans.....	Percent.....	.61	.64	.47	.37	.34	.38	.36	.56
Aggregate net operating income ¹	Mil. dol.....	7,146	7,615	8,726	10,899	13,126	14,484	15,600	15,587
Aggregate net income to average equity capital.....	Percent.....	11.3	11.0	11.5	13.1	14.3	14.1	13.8	12.1
Aggregate net income to total assets.....	Percent.....	.72	.73	.75	.82	.88	.78	.77	.72

¹ After taxes and before security transactions.Source: U.S. Federal Deposit Insurance Corporation, *The Condition of the Financial System*, May 1980, and unpublished data.NO. 846. U.S. BANKING OFFICES OF FOREIGN BANKS—SELECTED ASSETS AND LIABILITIES:
1973 TO 1983

[As of December, except as indicated. Offices include agencies, branches, subsidiary commercial banks and New York investment companies, and exclude Puerto Rican banks]

ITEM	Unit	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983, Mar.
Assets, total.....	Bil. dol.....	32.3	46.1	52.4	61.3	76.8	109.1	149.6	200.6	250.6	299.7	307.1
Standard banking assets.....	Bil. dol.....	24.8	36.9	42.1	48.5	59.0	87.6	122.5	163.8	216.4	252.3	253.9
Loans, total.....	Bil. dol.....	17.6	27.0	29.9	35.4	41.5	65.3	91.9	121.4	157.7	185.1	181.4
Business loans.....	Bil. dol.....	12.8	18.8	19.9	19.7	22.0	32.7	48.2	59.6	73.6	82.5	80.9
Deposits, total.....	Bil. dol.....	11.4	17.0	22.6	26.1	33.8	45.3	62.8	80.4	101.8	154.3	158.6
SHARE ¹												
Assets, total.....	Percent.....	3.8	4.9	5.3	5.8	6.4	8.0	9.9	11.9	13.5	14.4	14.7
Standard banking assets.....	Percent.....	3.2	4.3	4.7	5.1	5.6	7.3	9.1	11.0	12.9	13.5	13.6
Loans, total.....	Percent.....	3.7	5.1	5.7	6.4	6.6	8.8	10.9	13.4	15.4	16.2	16.0
Business loans.....	Percent.....	7.6	9.5	10.4	10.2	10.3	13.1	16.3	18.2	19.2	18.8	18.5
Deposits, total.....	Percent.....	1.7	2.3	2.9	3.1	3.6	4.5	5.6	6.6	7.7	10.3	10.6

¹ Percent of "domestically owned" commercial banks plus U.S. offices of foreign banks.

Source: Board of Governors of the Federal Reserve System, unpublished data.

No. 847. BANK HOLDING COMPANIES—OFFICES, ASSETS, DEPOSITS: 1970 TO 1982

[As of Dec. 31. A "bank holding company" means any company which has control over any bank or over any company that is, or becomes, a bank holding company by virtue of the Bank Holding Company Act and its amendments. Represents domestic data only]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982
Number of companies.....	121	1,752	1,821	1,912	2,027	2,222	2,478	2,905	3,500	4,289
Banking offices.....	4,155	20,593	22,056	22,990	24,243	25,814	27,099	29,924	33,733	36,993
Banks.....	895	3,462	3,674	3,791	3,903	4,101	4,280	4,954	5,689	6,684
Branches.....	3,260	17,131	18,382	19,199	20,340	21,513	22,819	24,970	28,044	30,209
Assets (bil. dol.).....	92.9	640.1	661.3	700.0	795.1	905.0	1,004.7	1,134.4	1,296.7	1,531.1
Percent of all commercial banks.....	16.1	69.6	68.5	67.9	68.2	68.7	70.6	74.1	77.3	82.2
Deposits (bil. dol.).....	78.1	509.7	527.5	553.6	624.3	691.1	744.7	840.6	938.7	1,108.5

Source: Board of Governors of the Federal Reserve System, *Banking and Monetary Statistics, 1941-1970; Annual Statistical Digest*; and unpublished data.

No. 848. MUTUAL SAVINGS BANKS—ASSETS AND LIABILITIES: 1970 TO 1982

[In billions of dollars, except number of banks. As of Dec. 31. Includes Puerto Rico through 1975. Excludes federally chartered mutual savings banks which were first allowed in 1979. See *Historical Statistics, Colonial Times to 1970, series X 687-688 and X 821-833*, for related data]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982
Number of banks.....	494	480	476	473	467	465	463	460	442	386
Assets ¹	79.2	109.5	121.1	134.8	147.3	158.2	157.9	166.6	164.7	163.1
Loans and discounts, gross.....	60.4	78.7	81.3	86.8	94.4	102.4	102.5	106.6	104.5	101.8
Real estate loans.....	57.9	74.9	77.2	81.6	88.2	95.2	96.2	98.1	95.0	89.5
Securities.....	16.2	26.0	34.2	42.0	46.6	47.8	46.1	48.0	46.0	44.8
U.S. Government.....	5.0	6.8	10.8	14.8	17.4	18.0	18.5	21.1	21.2	21.4
Other securities.....	11.2	19.1	23.4	27.2	29.1	29.8	27.5	26.9	24.8	23.4
Liabilities and surplus.....	79.2	109.5	121.1	134.8	147.3	158.2	157.9	166.6	164.7	163.1
Deposits.....	72.1	99.4	110.6	123.7	134.9	143.7	142.0	149.9	146.6	146.5
Miscellaneous liabilities.....	1.2	2.2	2.1	2.1	2.4	3.6	5.2	6.1	9.1	8.0
Surplus accounts.....	5.9	8.0	8.4	9.1	10.0	10.9	10.7	10.6	9.0	8.6

¹ Includes assets not shown separately.

Source: U.S. Federal Deposit Insurance Corporation, *Annual Report*.

No. 849. SAVINGS AND LOAN ASSOCIATIONS (FSLIC-INSURED)—SELECTED FINANCIAL ITEMS AND RATIOS OF CONDITION: 1970 TO 1982

[As of Dec. 31 for assets, liabilities and net worth; calendar year for other items. FSLIC—Federal Savings and Loan Insurance Corporation. FSLIC-insured savings and loan association represent approximately 98 percent of the resources of all operating savings and loan associations. Minus sign (—) indicates either loss or outflow]

ITEM	Unit	1970	1975	1976	1977	1978	1979	1980	1981	1982
Assets.....	Bil. dol.....	170.5	329.0	361.7	447.9	510.8	566.7	615.3	651.0	686.2
Mortgage loans outstanding.....	Bil. dol.....	146.1	271.3	315.3	372.4	423.5	466.5	492.7	509.4	470.5
Liabilities.....	Bil. dol.....	158.7	309.9	360.4	423.4	482.6	535.1	582.9	623.2	660.9
Net worth.....	Bil. dol.....	11.9	19.1	21.3	24.4	28.1	31.6	32.4	27.8	25.3
Gross operating income.....	Bil. dol.....	10.7	23.7	28.2	33.9	40.6	46.6	56.1	65.2	71.5
Operating expense.....	Bil. dol.....	1.9	3.9	4.6	5.3	6.2	7.1	7.9	9.0	10.1
Cost of funds.....	Bil. dol.....	6.1	17.6	20.5	24.1	28.7	36.4	47.4	63.3	70.3
Net income before taxes.....	Bil. dol.....	1.2	2.1	3.2	4.6	5.7	5.2	1.2	-6.2	-5.9
Net income after taxes.....	Bil. dol.....	.9	1.4	2.2	3.2	3.9	3.6	.8	-4.6	-4.3
Gross savings receipts.....	Bil. dol.....	62.0	151.1	180.8	214.5	266.4	354.5	454.5	520.8	634.5
New savings received.....	Bil. dol.....	56.5	138.4	165.4	196.3	245.7	330.6	424.2	482.0	603.7
Interest/dividends credited.....	Bil. dol.....	5.5	12.6	15.4	16.2	20.7	23.9	30.3	38.8	30.8
Savings withdrawals.....	Bil. dol.....	51.2	109.1	131.1	164.3	222.2	315.6	413.5	507.4	597.3
Net savings inflow.....	Bil. dol.....	10.6	42.1	49.7	50.2	44.2	38.9	41.0	13.4	37.3
Net new savings received.....	Bil. dol.....	5.3	29.3	34.4	32.0	23.5	15.0	10.7	-25.4	6.4
Mortgage loans closed.....	Bil. dol.....	20.8	53.8	77.1	105.3	106.3	98.7	71.3	52.3	53.4
Average cost of funds.....	Percent.....	5.30	6.32	6.38	6.44	6.67	7.47	8.94	10.92	11.38
Average effective dividend rate paid.....	Percent.....	5.14	6.21	6.31	6.39	6.56	7.29	8.78	10.71	11.19
Average interest return on mortgages.....	Percent.....	6.56	7.66	7.95	8.21	8.47	8.83	9.31	9.87	10.69
Net income after taxes to average assets.....	Percent.....	.57	.47	.63	.77	.82	.67	.13	-.73	-.65

Source: U.S. Federal Home Loan Bank Board, *Combined Financial Statements*, annual; *Savings and Home Financing Source Book*, annual; and *Federal Home Loan Bank Board Journal*, monthly.

No. 850. SAVINGS AND LOAN ASSOCIATIONS—FINANCIAL ITEMS: 1970 TO 1982

[In billions of dollars, except number of associations. As of December 31, except as indicated. Includes Puerto Rico and Guam. See headnote, table 851. Excludes associations which have either liquidated or converted to banks; for details, see source. Minus sign (—) indicates outflow. See also *Historical Statistics, Colonial Times to 1970*, series X 834-844]

ITEM	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982, prel.
Number of associations	5,689	5,170	5,086	4,931	4,821	4,761	4,725	4,684	4,613	4,292	3,833
Number insured	4,365	4,163	4,141	4,078	4,044	4,065	4,053	4,039	4,002	3,779	3,343
Total assets.....	176.2	271.9	295.5	338.2	391.9	459.2	523.6	579.0	629.8	664.2	706.0
Cash and investment securities	16.5	21.1	23.3	30.9	35.7	39.2	44.9	48.3	57.6	63.1	84.8
Mortgage loans outstanding ¹	150.3	231.7	249.3	278.6	323.0	381.2	432.9	475.7	502.8	518.5	482.2
Other assets	9.3	19.1	22.9	28.7	33.2	38.9	45.9	56.9	69.4	82.6	139.0
Total liabilities.....	163.8	254.8	277.1	318.5	369.9	434.0	494.6	546.3	596.4	635.8	679.8
Savings capital.....	145.4	227.0	243.0	285.7	335.9	388.8	431.0	470.0	511.0	525.1	568.2
Other	17.4	27.9	34.1	32.7	34.0	47.2	63.6	76.3	85.4	110.7	113.6
Net worth ²	12.4	17.1	18.4	19.6	22.0	25.2	29.0	32.6	33.4	28.4	26.2
Mortgage loans made during year ^{1,3,4}	21.4	49.4	39.0	55.0	78.8	107.4	110.3	100.5	72.5	53.3	54.3
Home construction ⁴	4.2	8.4	6.5	8.7	13.0	18.2	20.1	18.6	13.5	10.3	9.1
Home purchase ⁴	10.2	28.2	22.6	30.7	45.7	62.5	65.6	60.7	41.9	27.5	20.5
Net new savings ⁵	5.3	10.5	4.7	29.3	34.4	32.0	23.5	15.0	10.7	—25.4	—6.4

¹ Includes real estate sold on contract. ² Includes permanent stock. ³ Includes loans not shown separately. ⁴ Covers only 1-4 unit residential structures. ⁵ Insured associations only.

Source: U.S. Federal Home Loan Bank Board, *Savings and Home Financing Source Book*, annual.

No. 851. SAVINGS AND LOAN ASSOCIATIONS—SELECTED FINANCIAL ITEMS, STATES AND OTHER AREAS: 1981

[In billions of dollars, except number of associations. As of December 31. Major balance sheet items for all operating and insured associations not identical with those shown in table 850, primarily because some State-chartered associations submit their reports on dates other than Dec. 31]

REGION, DIVISION, AND STATE	Number of associations	Total assets	Mortgage loans outstanding	Savings capital	DIVISION AND STATE OR OTHER AREA	Number of associations	Total assets	Mortgage loans outstanding	Savings capital
Total.....	4,292	664,123	518,864	523,577	So. Atl.—Con.				
U.S.....	4,278	661,247	517,202	521,642	Md.....	166	11,524	9,375	9,183
Regions:					D.C.....	10	5,119	4,462	3,626
Northeast.....	849	96,795	67,396	79,410	Va.....	87	10,541	8,863	8,453
North Central.....	1,376	183,369	146,074	151,160	W.Va.....	29	1,753	1,252	1,487
South.....	1,631	197,877	159,358	161,314	N.C.....	180	12,996	10,782	11,274
West.....	422	183,206	144,374	129,758	S.C.....	70	6,712	5,718	5,759
N. Eng.....	233	16,255	12,330	14,039	Ga.....	89	11,541	9,320	9,768
Maine.....	20	693	551	584	Fla.....	125	56,577	45,586	45,684
N.H.....	15	1,196	964	1,047	E. So. Cent.....	290	22,018	17,598	18,808
Vt.....	5	259	207	216	Ky.....	90	6,200	5,134	5,338
Mass.....	149	8,636	6,357	7,373	Tenn.....	92	7,692	6,248	6,462
R.I.....	5	792	657	668	Ala.....	50	5,122	4,001	4,430
Conn.....	39	4,679	3,594	4,151	Miss.....	58	3,004	2,215	2,578
Mid. Atl.....	616	80,540	55,066	65,371	W. So. Cent.....	569	58,932	46,174	47,051
N.Y.....	105	26,883	16,727	21,503	Ark.....	70	4,704	3,476	4,003
N.J.....	192	27,581	17,578	22,455	La.....	129	9,146	7,174	7,793
Pa.....	319	26,076	20,761	21,413	Okla.....	57	5,564	5,376	5,123
E. No. Cent.....	1,010	131,915	105,139	110,048	Tex.....	313	38,518	30,148	30,132
Ohio.....	361	41,941	33,442	34,540	MT.....	150	32,068	24,749	23,789
Ind.....	143	10,565	8,514	9,131	Mont.....	14	1,176	952	1,018
Ill.....	343	47,747	37,028	39,547	Idaho.....	9	1,090	888	887
Mich.....	59	18,718	15,594	15,934	Wyo.....	12	1,058	773	901
Wis.....	104	12,944	10,561	10,896	Colo.....	46	10,949	8,469	7,926
W. No. Cent.....	366	51,454	40,935	41,112	N. Mex.....	33	2,777	2,157	2,282
Minn.....	53	10,741	8,355	8,313	Ariz.....	12	7,170	5,224	5,506
Iowa.....	70	7,360	5,676	6,091	Utah.....	16	5,271	4,305	3,351
Mo.....	104	16,389	12,705	13,376	Nev.....	8	2,577	1,981	1,920
N. Dak.....	11	2,530	2,004	1,984	Pac.....	272	151,138	119,625	105,969
S. Dak.....	18	1,148	873	1,008	Wash.....	47	10,175	8,235	7,376
Nebr.....	33	5,626	4,644	4,278	Oreg.....	26	6,680	5,335	5,027
Kans.....	77	7,660	6,384	6,062	Calif.....	188	130,583	103,132	91,034
So. Atl.....	772	116,927	95,586	95,455	Alaska.....	4	493	209	404
Del.....	16	264	228	221	Hawaii.....	7	3,207	2,714	2,128
					Puerto Rico.....	12	2,809	1,605	1,884
					Guam.....	2	70	56	51

Source: U.S. Federal Home Loan Bank Board, *Asset and Liability Trends*, annual.

No. 852. FEDERAL AND STATE-CHARTERED CREDIT UNIONS—SUMMARY: 1970 TO 1982

[As of December 31. Federal data include District of Columbia, Puerto Rico, Canal Zone, Guam, and Virgin Islands. State data include Puerto Rico. See also *Historical Statistics, Colonial Times to 1970*, series X 864-878]

YEAR	CREDIT UNIONS REPORTING ¹		MEMBERS (1,000)		ASSETS (mil. dol.)		LOANS OUTSTANDING (mil. dol.)		SAVINGS (mil. dol.)	
	Federal	State ²	Federal	State ²	Federal	State ²	Federal	State ²	Federal	State ^{2,3}
1970.....	12,977	10,679	11,966	10,853	8,861	9,089	6,969	7,137	7,829	7,857
1975.....	12,737	9,871	17,066	14,196	20,209	17,804	14,869	13,300	17,530	15,522
1978.....	12,759	9,443	23,259	17,461	34,760	27,588	27,687	22,582	29,803	23,715
1979.....	12,738	9,274	24,790	18,409	36,468	29,524	29,547	23,677	31,831	25,828
1980.....	12,440	9,025	24,519	19,235	40,092	33,143	26,350	22,633	36,263	29,480
1981.....	11,969	8,790	25,459	19,521	41,905	34,693	27,204	23,274	37,789	30,876
1982 ⁴	11,430	8,570	26,309	20,332	49,744	39,166	28,235	23,460	45,492	35,505

¹ Represents operating credit unions. ² No State or local credit union law in Alaska, Del., S. Dak., Wyo., and for 1970 and 1975, Hawaii and Nev. ³ Includes members' deposits. ⁴ State data are preliminary.

Source: National Credit Union Administration, *Annual Report of the National Credit Union Administration*, and unpublished data.

No. 853. FINANCE COMPANIES—ASSETS AND LIABILITIES: 1970 TO 1980

[In millions of dollars, except number of companies. As of June 30, Finance companies include Morris Plan companies and companies whose largest portion of assets is in one or more of the following kinds of receivables—sales finance receivables, personal cash loans to individuals and families, short- and intermediate-term business receivables, and junior liens on real estate. For 1980 based on a stratified random sample of 469 companies.]

ITEM	1970	1975	1980	ITEM	1970	1975	1980
Number of companies.....	2,961	3,376	2,775	Assets—Con.			
Total assets, net	60,577	88,716	175,025	Less reserves for unearned income.....	5,131	7,684	21,251
Total receivables, gross.....	57,113	85,994	183,341	Less reserves for losses.....	1,123	1,623	2,981
Consumer receivables.....	31,773	40,814	77,260	Total receivables, net.....	50,859	76,687	159,108
Retail passenger car paper.....	9,250	9,938	27,118	Other assets.....	8,718	12,029	15,917
Mobile homes.....	2,327	3,461	4,832	Total liabilities, capital, and surplus	60,577	88,716	175,025
Retail consumer goods.....	7,816	12,647	22,702	Loans and notes payable to banks.....	7,551	8,617	15,458
Personal cash loans.....	12,380	14,769	22,609	Short-term.....	6,581	7,900	7,685
Business receivables.....	22,999	39,286	86,067	Long-term.....	969	718	7,573
Wholesale paper.....	7,521	10,945	21,741	Commercial paper.....	22,073	25,905	52,328
Retail paper.....	6,563	11,067	26,318	Other short-term debt.....	5,082	7,408	10,627
Lease paper.....	3,802	8,065	23,261	Other long-term debt.....	15,501	29,013	52,898
Other business credit.....	5,113	9,208	14,747	Other liabilities.....	424	3,823	18,363
Real estate loans.....	(NA)	1,946	11,831	Capital, surplus, undivided profits.....	9,947	13,951	25,350
Other receivables.....	2,342	3,948	8,183				

NA Not available.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, November 1972, March 1976 and May 1981 Issues.

No. 854. SELECTED FEDERAL CREDIT AGENCIES—BALANCE SHEET ITEMS: 1970 TO 1982

[In billions of dollars. As of Dec. 31. Excludes capital accounts except for stock of home loan banks. Bonds, debentures, and notes valued at par; include only publicly offered securities and are not guaranteed by U.S. Government. Loans are gross of valuation reserves and represent cost for FNMA and unpaid principal for other agencies. See *Historical Statistics, Colonial Times to 1970*, series N 300, for FHLB advances]

AGENCY AND ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982
Federal home loan banks (FHLB):										
Assets: Advances to members.....	10.6	21.8	17.8	15.9	20.2	32.7	41.8	49.0	65.2	66.0
Investments.....	3.9	3.1	4.4	6.1	3.7	3.4	3.7	4.3	8.2	12.6
Liabilities: Bonds and notes.....	10.2	21.9	18.9	16.8	18.3	27.6	33.3	41.0	57.6	58.9
Deposits and borrowings.....	2.3	2.5	2.7	4.0	4.3	6.2	9.4	10.1	12.2	15.2
Capital stock.....	1.6	2.6	2.7	2.9	3.3	4.1	5.1	5.2	5.8	6.3
FNMA:¹										
Assets: Mortgage loans.....	15.5	29.6	31.8	32.9	34.4	43.2	50.8	57.3	59.8	69.7
Liabilities: Debentures and notes.....	15.2	28.2	30.0	30.6	31.9	41.1	48.5	55.2	58.7	70.1
Banks for cooperatives:										
Assets: Loans to cooperatives.....	2.0	3.6	4.0	4.4	5.7	6.1	8.1	9.8	9.5	9.4
Liabilities: Debentures.....	1.8	3.6	3.7	4.3	4.4	4.8	.6	.6	.2	.2
Federal intermediate credit banks:										
Assets: Loans and discounts.....	5.0	8.8	10.0	11.3	12.8	15.7	17.5	19.4	21.2	21.8
Liabilities: Debentures.....	4.8	8.6	9.3	10.5	11.2	11.5	2.7	1.8	1.4	.9
Federal land banks:										
Assets: Loans.....	7.2	13.6	16.6	19.1	22.8	25.6	32.3	39.1	48.0	54.0
Liabilities: Bonds.....	6.4	12.7	15.0	17.1	19.1	20.4	16.0	12.4	9.7	6.8
Farm credit banks:²										
Consolidated notes and bonds.....	(X)	(X)	(X)	(X)	2.5	5.1	33.2	48.2	60.0	65.0

X Not applicable. ¹ Secondary market operations of Federal National Mortgage Association. ² Began issuance in Sept. 1977; in 1979, issuance on a regular basis replacing financing activities of Federal land banks, Federal intermediate credit banks, and banks for cooperatives.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

NO. 855. FOREIGN LENDING BY LARGE U.S. BANKS, BY COUNTRY, TYPE OF BORROWER, AND MATURITY: 1982

[In millions of dollars. As of December. Covers 171 banks which do nearly all of the foreign lending in the country. Data represent claims on foreign residents and institutions held at all domestic and foreign offices of covered banks]

COUNTRY	Total claims ¹	Bank bor- rowers	Public bor- rowers	Maturi- ty, one year or less	COUNTRY	Total claims ¹	Bank bor- rowers	Public bor- rowers	Maturi- ty, one year or less
Total ²	353,298	187,817	64,648	251,856	Israel	2,252	1,710	218	1,779
Algeria	1,236	240	768	512	Italy	8,522	4,302	1,997	5,451
Argentina	8,231	2,221	3,068	5,982	Japan	20,875	12,573	109	16,931
Australia	4,607	624	350	2,105	Korea, Rep. of	11,035	6,617	1,701	8,301
Austria	1,905	1,511	246	1,558	Kuwait	1,377	817	-	1,290
Bahamas	7,524	7,147	76	7,058	Liberia	1,961	13	64	551
Bahrain	2,425	2,368	12	45	Mexico	24,377	4,001	9,697	13,445
Belgium-Luxembourg	12,173	9,978	1,283	10,905	Morocco	757	308	28	653
Bolivia	377	43	248	165	Netherlands	1,117	386	26	355
Brazil	20,438	8,662	7,296	8,772	Nicaragua	404	26	55	56
British West Indies	8,520	8,102	175	8,168	Nigeria	1,854	746	898	1,052
Bulgaria	192	76	112	95	Norway	3,433	644	267	1,419
Canada	12,922	8,484	562	10,185	Panama	5,609	3,903	386	4,511
Chile	6,081	3,269	1,077	2,909	Peru	2,541	1,154	916	1,749
China:					Philippines	5,746	1,565	2,445	3,871
Mainland	257	95	85	188	Poland	1,513	807	677	637
Taiwan	4,763	1,364	1,870	2,706	Portugal	1,552	786	544	786
Colombia	3,196	1,195	1,011	2,036	Saudi Arabia	1,793	363	55	1,366
Denmark	2,745	696	798	1,154	Singapore	8,005	6,996	58	7,579
Ecuador	2,029	587	757	1,428	South Africa	3,677	2,919	286	3,091
Egypt	1,174	591	318	1,038	Soviet Union	229	120	105	119
Finland	2,371	1,338	485	1,572	Spain	6,807	2,973	1,410	3,840
France	14,781	11,156	1,828	11,828	Sweden	5,428	3,059	1,192	3,594
German Dem. Rep.	633	428	173	373	Switzerland	3,820	2,208	134	3,461
Germany, Fed. Rep.	6,736	1,742	518	5,479	Thailand	1,758	776	360	1,338
Greece	2,707	253	848	1,082	Turkey	1,474	269	1,128	304
Hong Kong	7,917	4,325	248	6,216	Un. Arab Emirates	1,358	832	305	1,108
Hungary	937	147	785	262	United Kingdom	51,011	39,675	912	44,741
Indonesia	2,969	386	906	1,685	Venezuela	11,575	2,871	4,842	8,402
Iran	496	193	177	474	Yugoslavia	2,320	1,627	394	698
Ireland	1,262	528	474	718	Zaire	143	2	140	44

- Represents zeros. ¹ Includes nonbank private borrowers and maturity over one year, not shown separately.

² Includes countries not shown separately.

Source: Board of Governors of the Federal Reserve System, Federal Financial Institutions Examination Council, statistical release.

NO. 856. HOLDINGS OF CONSTRUCTION, LONG-TERM MORTGAGE, AND LAND LOANS, BY TYPE OF LOAN, 1970 TO 1982, AND BY LENDER, 1982

[In billions of dollars. As of end of year]

TYPE OF LOAN	1970	1975	1979	1980	1981	Total ¹	1982					
							Lender					
							Sav- ings and loan assn.	Com- mer- cial banks	Mutual sav- ings banks	Life insur- ance com- pans	Federal credit agen- cies	Mort- gage pools
Mortgage credits, total ..	422	731	1,212	1,318	1,399	1,462	492	299	97	139	156	201
Construction loans	18	41	59	63	68	78	23	45	2	1	3	-
1-4 unit family homes	5	13	27	26	26	26	13	12	1	-	-	-
Multifamily residential	6	12	13	14	15	17	3	8	1	-	3	-
Nonresidential	7	17	20	22	28	36	7	25	1	1	-	-
Farm properties	(2)	-	-	-	-	-	-	-	-	-	-	-
Long-term mortgage loans	400	679	1,141	1,242	1,319	1,368	463	247	95	137	153	201
1-4 unit family homes	267	435	786	857	909	940	389	159	67	16	79	188
FHA insured	62	68	95	105	113	119	11	4	9	4	23	59
VA guaranteed	37	57	86	91	95	98	14	3	10	2	13	54
Conventional	168	310	605	661	702	723	364	152	48	10	44	76
Multifamily	46	82	108	114	118	116	37	8	14	18	15	5
Nonresidential	66	128	189	205	218	230	36	72	15	90	7	(2)
Farm properties	20	34	58	66	74	81	(2)	8	-	13	51	7
Land loans	4	11	12	13	12	16	7	8	(2)	(2)	-	-

- Represents zero. Z Less than \$500 million. ¹ Includes other lenders not shown separately.

Source: U.S. Dept. of Housing and Urban Development, *The Supply of Mortgage Credit, 1970-1979*; and monthly and quarterly press releases based on *Survey of Mortgage Lending Activity*.

NO. 857. MORTGAGE DEBT OUTSTANDING AND DELINQUENCY RATE: 1970 TO 1983

[In billions of dollars, except rate. As of Dec. 31 except as noted. Includes Puerto Rico and Guam. See also *Historical Statistics, Colonial Times to 1970*, series N 273 and N 276]

TYPE OF PROPERTY, HOLDER, AND LOAN TYPE	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983 ¹
Mortgage debt, total.....	474	744	806	893	1,023	1,174	1,338	1,472	1,583	1,652	1,680
Residential nonfarm.....	358	551	596	665	769	891	1,020	1,124	1,202	1,249	1,271
1- to 4-family homes.....	298	451	495	561	658	771	891	987	1,065	1,112	1,133
Savings and loan assns.....	125	201	224	281	311	356	394	420	453	399	397
Commercial banks.....	42	75	77	86	105	129	150	160	170	177	179
Mutual savings banks.....	42	49	50	53	58	63	66	68	68	64	64
Life insurance companies.....	27	19	18	16	15	14	16	18	17	17	17
Federal agencies.....	22	33	38	36	36	44	53	61	68	78	79
Individuals and others.....	40	74	89	109	134	164	212	260	309	378	397
5 or more units.....	60	100	101	105	112	121	128	137	136	137	138
Commercial.....	86	147	159	171	190	211	236	256	280	296	302
Farm.....	30	46	51	57	64	71	83	92	102	107	107
Delinquency rate, 1- to 4-unit residential mortgage loans².....	3.13	4.23	4.37	4.58	4.54	4.57	4.62	4.96	5.24	5.52	5.84
Conventional loans.....	1.73	2.50	2.71	2.81	2.75	2.68	2.77	3.08	3.26	3.70	4.27
VA loans.....	3.01	3.96	4.16	4.43	4.37	4.52	4.81	5.33	5.67	5.95	6.24
FHA.....	3.65	5.39	5.44	5.78	5.84	6.01	6.20	6.55	6.80	7.05	7.27

¹ End of 1st quarter. ² Number of loans delinquent 30 days or more as percentage of mortgage loans in survey. Annual average quarterly figures.

Source: Mortgage debt, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly; and delinquency rate, Mortgage Bankers Association, Washington, D.C., *National Delinquency Survey*, quarterly.

NO. 858. MORTGAGE ACTIVITY OF BANKS, INSURANCE COMPANIES, AND SAVINGS AND LOAN ASSOCIATIONS: 1970 TO 1982

[In billions of dollars. Loans outstanding are as of end of year. Bank and savings and loan data include Puerto Rico. See *Historical Statistics, Colonial Times 1970*, series N 266-267, X 836-839, and X 911]

ITEM	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Commercial banks:											
Loans outstanding ¹	73.3	119.1	132.1	136.2	151.3	177.9	212.7	243.8	262.3	282.7	299.0
Nonfarm residential.....	45.6	74.9	82.4	82.9	94.3	111.7	136.3	158.1	170.2	181.7	185.5
FHA-insured.....	7.9	8.2	7.2	6.3	5.6	5.3	5.2	4.8	4.4	4.5	4.6
VA-guaranteed.....	2.6	3.3	3.2	3.1	3.0	3.0	2.8	2.7	2.4	2.4	2.7
Conventional.....	35.1	63.4	72.0	73.5	85.7	103.4	128.3	150.6	163.3	174.7	178.2
Other nonfarm.....	23.3	38.7	43.7	46.9	50.3	58.3	68.0	77.1	83.5	92.7	105.1
Farm.....	4.4	5.4	6.0	6.4	6.7	7.8	8.5	8.6	8.5	8.3	8.4
Mutual savings banks:											
Loans acquired.....	6.1	13.0	8.6	8.9	12.1	15.3	15.5	14.0	8.2	5.6	7.0
Loans outstanding ²	57.9	73.2	74.9	77.2	81.6	88.1	94.4	99.7	100.1	99.3	97.1
Nonfarm residential.....	49.9	61.1	62.1	63.8	67.3	72.9	78.5	83.7	83.9	83.4	81.6
FHA-insured.....	16.1	15.5	14.8	14.4	14.6	14.0	13.8	13.8	13.2	12.5	11.7
VA-guaranteed.....	12.0	12.9	12.7	12.4	12.3	12.0	11.9	11.4	10.8	10.3	9.7
Conventional.....	21.8	32.7	34.6	37.0	40.4	46.9	52.9	58.5	59.9	60.6	60.2
Other nonfarm.....	7.9	12.0	12.7	13.3	14.3	15.2	15.9	16.0	16.1	15.8	15.5
Life insurance companies:											
Loans acquired.....	6.6	10.7	10.5	8.8	9.0	13.3	16.9	19.6	18.3	13.0	10.0
Nonfarm.....	6.3	9.7	9.5	7.7	7.5	10.9	14.2	16.8	16.5	11.8	9.3
Farm.....	3	1.0	1.0	1.1	1.5	2.4	2.7	2.8	1.8	1.2	7
Loans outstanding.....	74.4	81.4	86.2	89.2	91.6	98.8	102.9	115.1	127.9	135.6	138.5
Nonfarm.....	68.7	75.4	79.9	82.4	84.1	87.9	92.4	103.0	115.0	122.5	125.7
FHA-insured.....	11.4	9.2	8.5	7.9	7.3	6.6	6.1	5.8	5.5	5.1	4.8
VA-guaranteed.....	5.4	4.4	4.2	3.9	3.6	3.3	3.2	3.0	2.8	2.6	2.5
Other.....	51.9	61.8	67.2	70.6	73.2	78.0	83.1	94.2	106.7	114.8	118.4
Farm.....	5.6	6.0	6.3	6.8	7.5	8.8	10.5	12.2	12.8	13.1	12.8
Savings and loan associations:											
Loans made ³	25.8	60.0	47.8	62.6	90.7	123.8	128.2	116.9	86.7	63.1	61.6
Loans outstanding ⁴	150.3	231.7	249.3	278.6	323.0	381.2	432.9	475.8	502.8	517.9	492.2
FHA-insured.....	10.2	15.1	14.5	16.5	14.7	13.9	13.2	13.0	12.8	12.0	12.1
VA-guaranteed.....	8.5	14.7	15.3	14.0	16.6	16.2	15.8	15.5	15.0	14.2	14.0
Conventional.....	131.7	202.0	219.4	248.0	291.7	351.0	403.9	447.2	475.0	491.7	466.1

¹ Includes loans held by nondeposit trust companies; excludes holdings of trust departments of commercial banks. ² Includes a small amount of farm loans not shown separately. ³ Includes Guam. ⁴ Includes shares pledged against mortgage loans, junior liens and real estate sold on contract.

Source: U.S. Dept. of Housing and Urban Development, *The Supply of Mortgage Credit, 1970-1979*; and monthly and quarterly press releases based on the Survey of Mortgage Lending Activity.

No. 859. CONSUMER CREDIT: 1970 TO 1983

[In billions of dollars, except percent. Estimated amounts of credit outstanding as of end of year or month; extended and repaid, for entire year or month. See also *Historical Statistics, Colonial Times to 1970*, series X 551-560]

TYPE OF CREDIT	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983, May
Credit outstanding.....	143.1	177.7	203.1	213.4	223.1	248.9	289.2	337.9	383.3	388.3	412.4	430.7	433.9
Ratio to disposable personal income ¹ (percent).....	20.6	21.9	22.2	21.4	20.4	20.8	22.0	22.9	23.2	21.2	20.1	19.8	(NA)
Installment.....	105.5	133.2	155.1	164.6	172.0	193.5	230.6	273.6	312.0	313.5	331.7	344.8	347.2
Automobile paper.....	36.3	47.9	53.8	54.3	57.2	67.7	82.9	101.6	116.4	116.9	125.3	130.2	133.6
Revolving.....	5.1	9.7	11.7	13.7	15.0	17.2	39.3	48.3	57.0	58.4	62.8	67.2	63.5
Mobile home paper.....	2.5	9.5	13.6	14.6	14.4	14.6	15.0	15.2	16.8	17.3	18.3	19.0	19.4
All other loans.....	61.6	66.1	76.0	82.0	85.3	94.1	93.4	108.5	121.9	121.0	125.2	126.4	130.6
Noninstallment.....	37.6	44.5	48.0	48.8	51.1	55.4	58.6	64.3	71.3	74.8	80.7	85.9	86.7
Single-payment loans.....	19.3	25.2	27.3	25.8	27.4	28.8	32.8	35.8	40.0	42.4	44.0	47.1	47.7
Charge accounts.....	9.2	10.3	10.7	11.2	11.7	13.2	11.0	12.0	12.8	13.1	14.4	14.4	13.1
Service credit.....	9.1	9.0	10.0	10.9	12.0	13.4	14.8	16.4	18.6	19.3	22.3	24.3	25.9
Installment credit:													
Extended.....	115.1	152.3	173.0	172.8	180.1	210.7	257.6	297.7	324.8	306.1	334.5	344.9	(NA)
Liquidated.....	110.4	136.8	152.8	163.3	172.7	189.2	222.1	254.5	286.4	304.6	316.3	331.8	(NA)
Net change ²	4.7	15.5	20.2	9.5	7.4	21.6	35.5	43.1	38.4	1.4	18.2	13.1	2.4
Ratio: Liquidations to disposable income ^{1 3} (percent).....	15.9	16.9	16.7	16.4	15.8	15.8	16.9	17.3	17.3	16.6	15.5	15.2	(NA)
Life insurance policy loans ⁴.....	16.1	18.0	20.2	22.9	24.5	25.8	27.6	30.1	34.8	38.9	48.7	53.0	53.8
Delinquency rate, bank installment loans ⁵	2.14	2.19	2.53	3.13	2.77	2.57	2.62	2.71	2.93	2.82	2.61	2.39	(NA)

NA Not available. ¹ See table 749. ² Prior to 1983, net change equals extensions, seasonally adjusted less liquidations, seasonally adjusted. Beginning 1983, net change equals outstandings, seasonally adjusted less outstandings of the previous period, seasonally adjusted. ³ Seasonally adjusted. ⁴ Source: American Council of Life Insurance, Washington, D.C. Figures are annual statement asset values. These loans are not included in "Credit outstanding." ⁵ Number of closed end (excluding revolving credit and bank cards) loans delinquent 30 days or more as a percentage of total installment loans outstanding. Source: American Bankers Association, Washington, D.C., *Delinquency Rates on Bank Installment Loans*.

Source: Except as noted, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

No. 860. CONSUMER INSTALLMENT CREDIT OUTSTANDING, BY HOLDER: 1970 TO 1983

[In billions of dollars. As of end of year or month. Estimated]

HOLDER	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983, May
Total.....	105.5	133.2	155.1	164.6	172.0	193.5	230.6	273.6	312.0	313.5	331.7	344.8	347.2
Commercial banks.....	48.7	64.6	75.9	80.1	82.9	93.7	112.4	136.1	154.2	147.0	147.6	152.1	153.5
Finance companies.....	27.8	31.9	35.4	36.1	36.0	38.9	44.9	54.3	68.3	76.8	89.8	94.3	95.4
Credit unions.....	13.0	17.0	19.6	21.9	25.7	31.2	37.6	44.3	46.5	44.0	46.0	47.3	47.8
Retailers ¹	13.9	15.0	16.6	18.1	18.2	19.3	23.5	26.0	28.1	28.5	29.6	30.2	27.5
Other ²	2.3	4.8	7.6	8.4	9.2	10.5	12.2	13.0	14.9	17.2	18.8	21.0	23.0

¹ Excludes 30-day charge credit held by retailers, oil and gas companies, and travel and entertainment companies.

² Includes mutual savings banks, savings and loan associations, and gasoline companies.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

No. 861. INSTALLMENT CREDIT—FINANCE RATES ON SELECTED TYPES OF CREDIT FOR COMMERCIAL BANKS AND FINANCE COMPANIES: 1972 TO 1983

[Percent per year. Annual averages, except as indicated. Commercial bank rates are "most common" rates for direct loans with specified maturities; finance company rates are weighted averages for purchased contracts, except personal loans]

TYPE	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983, May
Commercial banks:												
New automobiles (48 months) ¹	10.05	10.21	10.97	11.36	11.07	10.92	11.02	12.02	14.30	16.54	16.83	² 13.90
Mobile homes (120 months) ¹	10.79	10.94	11.45	11.82	11.75	11.82	12.09	12.77	14.99	17.45	18.05	² 15.84
Other consumer goods (24 months).....	12.46	12.60	12.99	13.08	13.02	12.97	13.19	13.85	15.47	18.09	18.65	² 16.57
Personal loans (12 months).....	12.68	12.83	13.26	13.41	13.30	13.39	13.61	14.09	15.68	18.47	19.08	(NA)
Credit-card plans.....	17.21	17.21	17.21	17.16	17.05	16.89	17.03	17.03	17.31	17.78	18.51	² 16.79
Finance companies:												
New automobiles.....	11.90	12.08	12.61	13.12	13.17	13.14	13.14	13.48	14.84	15.91	15.78	11.94
Used automobiles.....	16.53	16.70	17.18	17.64	17.63	17.62	17.63	17.95	19.10	19.98	20.75	18.76
Mobile homes.....	12.42	12.78	13.29	13.63	13.44	13.58	13.43	13.64	15.47	16.88	18.77	(NA)
Other consumer goods.....	19.35	18.87	18.09	19.78	19.51	19.21	19.04	19.08	20.61	18.11	22.56	(NA)
Personal loans.....	21.09	20.61	20.74	20.97	21.04	20.54	20.52	20.49	21.13	21.68	23.11	(NA)

NA Not available. ¹ For 1972-1982, maturities were 36 months for new car loans and 84 months for mobile home loans.

² Data for midmonth of quarter only.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly, and *Annual Statistical Digest*.

No. 862. MONEY STOCK AND MONEY IN CIRCULATION: 1970 TO 1982

[In billions of dollars, except as indicated. As of Dec. 31. See *Historical Statistics, Colonial Times to 1970*, series X 423, for money in circulation]

KIND OF MONEY	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total money stock	68.1	85.9	93.0	92.1	100.1	111.9	124.7	138.5	154.0	165.5	175.0
Percent gold.....	15.5	13.5	12.5	12.6	11.6	10.5	9.4	8.1	7.3	6.8	6.4
Bullion and coin, total	17.1	19.7	20.3	21.2	21.8	22.4	22.9	23.7	24.4	25.0	25.6
Gold ¹	10.6	11.6	11.7	11.6	11.6	11.7	11.7	11.2	11.2	11.2	11.1
Cupronickel-clad dollars.....	—	.3	.3	.5	.6	.6	.7	1.4	1.5	1.5	1.5
Subsidiary and minor coin.....	6.0	7.3	7.8	8.6	9.2	9.6	10.1	10.6	11.2	11.8	12.4
Other ².....	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5
Paper currency, net	61.5	77.7	84.3	82.5	89.9	101.1	113.4	125.9	140.8	151.6	160.6
Federal Reserve notes and bank notes.....	53.8	68.2	75.2	81.9	89.4	100.6	112.9	125.4	140.3	151.1	160.0
Gold certificates, net ³	7.1	8.9	8.6	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Other.....	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5
Money in circulation	57.1	72.5	79.7	86.5	93.7	103.8	114.6	125.6	137.2	145.6	156.2
Per capita (dol.).....	276	343	375	403	433	477	522	566	600	630	670

- Represents zero. Z. Less than \$50 million. ¹ Valued at \$35 per fine ounce until May 7, 1972; valued at \$38 per fine ounce until October 18, 1973; \$42 thereafter. Excludes gold deposited with U.S. by International Monetary Fund from September 1965 to February 1972. ² Includes standard silver dollars. ³ Includes gold certificates outside Treasury, credits payable in gold certificates, and redemption fund for Federal Reserve notes. Beginning 1975, not comparable with earlier years because of decision by Federal Reserve Banks to pledge substantially all gold certificates against Federal Reserve notes outstanding.

Source: U.S. Dept. of the Treasury, 1970-1980, *Statistical Appendix to the Annual Report of the Secretary of the Treasury on the State of the Finances*; thereafter, *Monthly Statement of United States Currency and Coin*, Form 1028; and unpublished data.

No. 863. MONEY IN CIRCULATION, BY DENOMINATION: 1970 TO 1982

[In millions of dollars. As of December 31]

DENOMINATION	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total ¹	57,093	72,497	79,743	86,547	93,717	103,811	114,645	125,600	137,244	145,566	156,159
Coin and small currency	39,639	48,288	51,606	54,865	57,645	62,543	66,693	70,693	73,893	76,517	79,632
Coin.....	6,281	7,759	8,332	8,959	9,483	10,071	10,739	11,658	12,419	13,084	13,597
\$1 ²	2,310	2,639	2,720	2,809	2,858	3,038	3,194	3,308	3,499	3,613	3,682
\$2.....	136	135	135	135	637	650	671	677	680	680	684
\$5.....	3,161	3,614	3,718	3,841	3,905	4,190	4,393	4,540	4,635	4,797	4,810
\$10.....	9,170	10,226	10,503	10,777	10,775	11,361	11,661	11,894	11,924	11,824	11,677
\$20.....	18,581	23,915	26,197	28,344	29,997	33,233	36,045	38,613	40,739	42,519	45,180
Large currency	17,454	24,210	28,137	31,681	36,072	41,269	47,952	54,907	63,352	69,049	76,527
\$50.....	4,896	6,514	7,444	8,157	9,026	10,079	11,279	12,585	13,731	14,889	16,785
\$100.....	12,084	17,288	20,298	23,139	26,668	30,818	36,306	41,960	49,264	53,807	59,392
\$500.....	215	185	179	175	172	169	167	164	163	161	159
\$1,000.....	252	216	209	204	200	197	194	192	189	187	185
\$5,000.....	—	—	—	—	—	—	—	—	—	—	—
\$10,000.....	4	4	4	4	4	4	4	4	3	3	4

¹ Outside Treasury and Federal Reserve banks. ² Paper currency only; \$1 silver coins reported under coin.

Source: 1970-1973, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly; thereafter, U.S. Dept. of the Treasury, *Monthly Statement of United States Currency and Coin*, Form 1028.

No. 864. BANK DEBITS AND DEPOSIT TURNOVER: 1970 TO 1983

[In trillions of dollars, except rate. Annual averages of monthly data, except as indicated]

ITEM	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983, May ¹
Debits to demand deposits:												
All commercial banks.....	11.3	18.9	22.9	25.1	29.3	34.3	40.2	49.8	63.1	81.2	91.0	107.3
Major New York City banks.....	4.0	6.8	8.4	9.7	11.5	13.9	15.0	18.5	25.2	34.0	38.0	46.9
Other banks.....	7.3	12.1	14.5	15.4	17.8	20.4	25.2	31.3	37.8	47.2	53.0	60.4
Demand deposit turnover rate: ²												
All commercial banks.....	63.3	64.7	98.9	105.4	117.0	128.9	138.8	163.3	202.5	296.1	325.0	370.4
Major New York City banks.....	170.7	273.9	320.9	357.5	413.7	502.1	542.2	643.8	814.8	1,114.2	1,295.7	1,471.5
Other banks.....	47.0	61.2	70.6	73.0	79.9	85.8	96.1	113.4	135.0	188.2	211.5	234.3

¹ Seasonally adjusted. ² Computed by dividing debits during a period (converted to an annual rate) by average deposits against which debits are made; indicates number of times a deposit dollar is used during the period.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

NO. 865. MONEY STOCK MEASURES AND COMPONENTS: 1970 TO 1983

(In billions of dollars, except percent. As of December, except as indicated. Seasonally adjusted averages of daily figures. See *Historical Statistics, Colonial Times to 1970*, series X 410-417 for similar data)

ITEM	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983, May
Measures: ¹												
M1	217	266	278	291	310	336	363	389	414	441	478	507
M2	628	861	909	1,023	1,164	1,287	1,389	1,498	1,630	1,795	1,960	2,098
M3	675	979	1,061	1,162	1,296	1,452	1,614	1,758	1,937	2,168	2,378	2,479
L	816	1,142	1,247	1,372	1,522	1,711	1,923	2,132	2,344	2,622	2,899	(NA)
Components:												
Currency	49	62	68	74	81	89	97	106	116	123	133	139
Demand deposits	166	203	207	214	224	240	254	262	267	296	240	243
Traveler's checks	1	2	2	2	3	3	4	4	4	5	4	5
Other checkable deposits ²	(2)	(2)	(2)	1	3	4	8	17	27	77	101	121
Savings deposits	260	327	339	389	453	492	481	423	401	344	359	323
Small denomination time deposits ³	154	268	290	341	397	454	534	653	752	855	860	721
Large denomination time deposits ⁴	45	111	144	130	118	145	195	222	258	300	267	227
Short-term Treasury securities	49	50	54	77	81	90	99	129	157	176	218	(NA)
Savings bonds	52	60	63	67	72	76	80	80	72	68	68	(NA)
Money market mutual fund shares ²	(2)	(2)	2	4	3	4	10	44	76	185	221	171
Commercial paper	35	42	50	48	52	63	79	97	98	104	109	(NA)
Bankers' acceptances	3	5	11	8	9	12	22	27	32	41	45	(NA)
Term repurchase agreements (RP's) ²	2	7	8	8	14	19	27	30	34	37	40	45
Overnight repurchase agreements (RP's) ²	1	5	6	6	11	14	19	20	25	31	41	49
Term Eurodollars ²	2	5	8	10	13	18	29	42	48	65	80	(NA)
Overnight Eurodollars ²	(NA)	(NA)	(NA)	(NA)	(NA)	1	2	3	5	7	6	9
Annual percent change: ⁵												
M1	5.0	7.0	4.5	4.7	6.5	8.4	8.0	7.2	6.4	6.4	8.5	^a 12.2
M2	6.5	11.1	5.6	12.5	13.8	10.6	7.9	7.8	8.8	10.1	9.2	^a 13.3
M3	7.1	13.2	6.4	9.5	11.5	12.0	11.2	8.9	10.2	11.9	9.7	^a 10.6
L	6.9	11.9	9.2	10.0	10.9	12.4	12.4	10.9	9.9	11.9	10.5	(NA)

NA Not available. Z Less than \$500 million. ¹ M1 is currency plus demand deposits plus traveler's checks of nonbank issuers plus other checkable deposits at banks and thrift institutions; M2 is M1 plus overnight RP's and Eurodollars, balances of money market mutual fund shares, and savings and small time deposits at commercial banks and thrift institutions; M3 is M2 plus large time deposits and term RP's at commercial banks and thrift institutions (general purpose and broker/dealer) and balance of institutions—only money market mutual funds; and L is M3 plus other liquid assets such as term Eurodollars, savings bonds, short-term Treasury securities, bankers' acceptances, and commercial paper. ² Not seasonally adjusted. ³ Issued in amounts of less than \$100,000, includes retail repurchase agreements. ⁴ Issued in amounts of \$100,000 or more and are net of holdings of domestic banks, thrift institutions, the U.S. Government, money market mutual funds, and foreign banks and other institutions. ⁵ From previous year shown; for 1970, from 1965. For definition of average annual percent change, see Guide to Tabular Presentation. ⁶ Change from May 1982-May 1983.

NO. 866. TIME AND SAVINGS DEPOSITS HELD BY INSURED COMMERCIAL BANKS—DEPOSITS AND INTEREST RATES: 1978 TO 1983

TYPE OF DEPOSITS	OUTSTANDING BALANCES (bil. dol.)						AVERAGE OF MOST COMMON RATE PAID ¹ (percent)			
	1978, July	1979, July	1980, July	1981, July	1982, July	1983, Jan.	1979, July	1980, July	1981, July	1982, July
Total time and savings deposits ²	576.4	625.1	685.2	803.7	949.5	1,023.8	6.25	6.64	(NA)	(NA)
Savings	220.6	217.5	204.1	202.0	225.9	303.4	5.15	5.19	5.21	^a 5.23
Club accounts	2.1	2.2	2.2	2.2	^a 9	(NA)	(NA)	(NA)	4.04	^a 4.36
Fixed ceiling time deposits, less than \$100,000 ⁴	159.0	142.9	94.3	62.5	41.1	67.7	(NA)	(NA)	(NA)	(NA)
IRA and Keogh plan time deposits	2.8	4.5	5.3	6.7	15.4	19.8	7.86	8.43	10.31	^a 13.14
With maturities of 3 years or more or variable ceiling rates	2.8	4.5	5.3	6.7	(NA)	(NA)	7.86	8.43	10.31	^a 12.88
Ceiling-free IRA's with maturities of 1½ years	(NA)	(NA)	(NA)	(NA)	8.3	12.8	(NA)	(NA)	^b 14.17	^a 9.54
All savers certificates, tax exempt, with maturities of exactly 1 year	(NA)	(NA)	(NA)	(NA)	22.3	8.5	(NA)	(NA)	(NA)	9.85
Money market certificates, \$10,000 or more with maturities of exactly 6 months ⁵	5.4	64.2	147.9	217.9	234.2	203.7	9.25	8.18	15.06	12.28
Small savers certificates, less than \$100,000 with maturities of 2½ years or more	(NA)	(NA)	21.7	35.9	76.7	87.5	(NA)	9.17	11.74	13.11
Interest-bearing time deposits of \$100,000 or more	174.0	189.3	205.4	272.2	333.9	333.2	(NA)	(NA)	(NA)	(NA)
Non-interest bearing time deposits	4.3	4.5	4.3	4.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. ¹ The most common interest rate paid is based on the largest dollar volume of new deposits in the two-week period just preceding the survey date for all deposit categories, except money market certificates and small savers certificates, which are based on the single week ending on the survey date. ² Includes other types of deposits not shown separately. ³ As of Jan. 1982. ⁴ Excludes IRA and Keogh plan accounts, all savers certificates, money market certificates, and small savers certificates. ⁵ As of Jan. 1983. ⁶ Excludes accounts held in IRA and Keogh plans.

Source of tables 865 and 866: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

NO. 867. MONEY MARKET INTEREST RATES: 1970 TO 1983

[Percent per year. Annual averages of monthly data, except as indicated. See also *Historical Statistics, Colonial Times to 1970*, series X 444-453]

TYPE	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983, Jan.-May ¹
<i>Federal funds, effective rate</i>	7.18	8.73	10.50	5.82	5.04	5.54	7.93	11.19	13.36	16.38	12.26	8.89
Commercial paper, 3-month ²	(NA)	8.20	10.01	6.25	5.24	5.55	7.94	10.97	12.66	15.32	11.89	8.38
Prime rate charged by banks.....	7.91	8.02	10.81	7.66	6.84	6.83	9.06	12.67	15.27	18.87	14.86	10.73
Eurodollar deposits, 3-month.....	8.52	9.24	11.04	7.03	5.58	6.05	8.78	11.96	14.00	16.79	13.12	9.12
Finance paper, 3-month ³	7.18	7.41	8.65	6.15	5.20	5.49	7.80	10.47	11.49	14.08	11.23	8.23
Bankers acceptances, 90-day ⁴	7.31	8.08	9.89	6.29	5.08	5.54	8.06	10.99	12.72	15.32	11.89	8.39
Large negotiable certificates of deposit, 3-month, secondary market.....	7.56	8.41	10.24	6.44	5.27	5.64	8.22	11.22	13.07	15.91	12.27	8.54
Federal Reserve discount rate ⁵	5½-6	4½-7½	7½-8	6-7¼	5¼-6	5¼-6	6-9¼	9½-12	10-13	12-14	8½-12	8½
U.S. Government securities: ⁶												
3-month Treasury bill.....	6.39	7.03	7.83	5.77	4.97	5.27	7.19	10.07	11.43	14.03	10.61	8.14
6-month Treasury bill.....	6.48	7.20	7.94	6.09	5.25	5.53	7.58	10.06	11.37	13.80	11.07	8.21
1-year Treasury bill.....	6.48	7.01	7.70	6.28	5.52	5.71	7.74	9.75	10.89	13.14	11.07	8.23
Prime 1-year municipals ⁷	4.35	3.85	4.75	3.91	3.12	2.91	4.15	5.34	6.25	7.92	7.88	4.85

NA Not available. ¹ Monthly average. ² Averages of daily offering rates of dealers. ³ Placed directly; averages of daily offering rates quoted by finance companies. ⁴ Averages of the most representative daily offering rates of dealers. Beginning Aug. 15, 1974, closing rates were used, and from Jan. 1, 1981, rates of top-rated banks only. ⁵ Federal Reserve Bank of New York, low and high. The discount rates for 1980 and 1981 do not include the surcharge applied to frequent borrowings by large institutions. The surcharge reached 3 percent in 1980 and 4 percent in 1981. Surcharge was eliminated in Nov. 1981. ⁶ Averages based on daily closing bid yields in secondary market, bank discount basis. ⁷ Averages based on quotations for one day each month. Source: Salomon Brothers, Inc., New York, N.Y., *An Analytical Record of Yields and Yield Spreads*.

Source: Except as noted, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly, and *Annual Statistical Digest*.

NO. 868. FEDERAL RESERVE BANK OF NEW YORK—DISCOUNT RATES: 1973 TO 1983

[Percent per year. See also *Historical Statistics, Colonial Times to 1970*, series X 454-455]

EFFECTIVE DATE	RATE	EFFECTIVE DATE	RATE	EFFECTIVE DATE	RATE	EFFECTIVE DATE	RATE
1973: Jan. 15.....	5	1976: Jan. 19.....	5½	1979: July 20.....	10	1981: ¹ May 5.....	14
Feb. 28.....	5½	Nov 22.....	5¼	Aug. 17.....	10½	Nov. 2.....	13
May 4.....	5¾	1977: Aug. 31.....	5¼	Sept. 19.....	11	Dec. 4.....	12
May 11.....	8	Oct. 26.....	6	Oct. 8.....	12	1982: July 20.....	11½
June 11.....	8½	1978: Jan. 9.....	6½	1980: ¹ Feb. 15.....	13	Aug. 2.....	11
July 2.....	7	May 11.....	7	May 30.....	12	Aug. 18.....	10½
Aug. 14.....	7½	July 3.....	7¼	June 13.....	11	Aug. 27.....	10
1974: Apr. 25.....	8	Aug. 21.....	7¼	July 28.....	10	Oct. 12.....	9½
Dec. 9.....	7¼	Sept. 22.....	8	Sept. 25.....	11	Nov. 22.....	9
1975: Jan. 10.....	7¼	Oct. 15.....	8½	Nov. 17.....	12	Dec. 15.....	8½
Feb. 5.....	6¾	Nov. 1.....	9½	Dec. 5.....	13	In effect June 30, 1983.....	8½
Mar. 10.....	6¼						
May 16.....	6						

¹ See table 867, footnote 5.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

NO. 869. BANK EFFECTIVE INTEREST RATES FOR COMMERCIAL AND INDUSTRIAL LOANS, CONSTRUCTION AND LAND DEVELOPMENT LOANS, AND FARM LOANS, BY SIZE OF LOAN: 1980 TO 1983

[In percent. Represents loans made during the first full business week in May. Based on a stratified random sample of member banks of the Federal Reserve System and nonmember banks, totaling approximately 349 banks]

TYPE AND SIZE OF LOAN	1980	1981	1982	1983	TYPE AND SIZE OF LOAN	1980	1981	1982	1983
Commercial and industrial loans:					Construction and land development loans				
Short-term.....	17.75	19.99	17.11	10.20	\$1,000 to \$24,999.....	18.32	19.09	17.80	12.66
\$1,000 to \$24,999.....	17.90	19.45	18.51	14.44	\$25,000 to \$49,999.....	17.14	19.83	19.19	14.84
\$25,000 to \$49,999.....	18.78	19.87	18.56	13.57	\$50,000 to \$99,999.....	15.88	18.06	18.81	15.54
\$50,000 to \$99,999.....	18.85	19.10	18.06	13.40	\$100,000 to \$249,999.....	18.69	16.10	17.07	13.45
\$100,000 to \$249,999.....	18.49	19.93	17.77	12.71	\$250,000 and over.....	19.56	20.74	18.45	13.89
\$250,000 to \$999,999.....	19.13	19.58	17.98	11.59		16.99	19.35	16.96	11.35
\$1 million and over.....	17.10	20.14	16.94	9.81	Farm loans				
Long-term.....	18.37	19.25	16.96	11.81	\$1,000 to \$9,999.....	17.38	17.88	17.77	13.85
\$1,000 to \$99,999.....	18.26	19.22	18.80	14.56	\$10,000 to \$24,999.....	16.46	17.50	17.69	14.44
\$100,000 to \$499,999.....	18.64	19.34	17.59	13.86	\$25,000 to \$49,999.....	16.98	17.59	17.59	14.48
\$500,000 to \$999,999.....	18.62	19.48	17.29	12.48	\$50,000 to \$99,999.....	17.10	17.67	17.59	14.21
\$1 million and over.....	18.30	19.23	16.69	10.88	\$100,000 to \$249,999.....	17.36	17.78	18.01	14.05
					\$250,000 and over.....	17.40	17.97	17.76	13.99
						18.14	18.46	17.91	12.30

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

NO. 870. BOND YIELDS, STOCK YIELDS, AND MORTGAGE RATES: 1970 TO 1982

[Percent per year. Annual averages of monthly data, except as indicated. See also *Historical Statistics, Colonial Times to 1970, series X 474-491*]

TYPE	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
U.S. Treasury, constant maturities: ¹											
3-year	7.29	6.95	7.82	7.49	6.77	6.69	8.29	9.72	11.55	14.44	12.92
5-year	7.38	6.87	7.80	7.77	7.18	6.99	8.32	9.52	11.48	14.24	13.01
10-year	7.35	6.84	7.56	7.99	7.61	7.42	8.41	9.44	11.46	13.91	13.00
20-year	6.86	7.12	8.05	8.19	7.86	7.67	8.48	9.33	11.39	13.72	12.92
U.S. Govt., 3-5 year issues ²	7.37	6.92	7.81	7.55	6.94	6.85	8.30	9.58	(NA)	(NA)	(NA)
U.S. Govt., long-term bonds ^{2,3}	6.58	6.30	6.98	6.98	6.78	7.08	7.89	8.74	10.81	12.87	12.23
State and local govt. bonds, Aaa ⁴	6.12	4.95	5.89	6.42	5.65	5.20	5.52	5.89	7.84	10.42	10.88
State and local govt. bonds, Baa ⁴	6.75	5.47	6.53	7.62	7.49	6.12	6.27	6.72	9.00	11.75	12.48
High-graded municipal bonds (Standard & Poor's) ⁵	6.51	5.18	6.09	6.89	6.49	5.56	5.90	6.39	8.51	11.23	11.57
Municipal (Bond Buyer, 20 bonds)	6.35	5.19	6.17	7.05	6.64	5.68	6.03	6.52	8.59	11.33	11.66
Corporate Aaa seasoned ⁴	8.04	7.44	8.57	8.83	8.43	8.02	8.73	9.63	11.94	14.17	13.79
Corporate Baa seasoned ⁴	9.11	8.24	9.50	10.61	9.75	8.97	9.49	10.69	13.67	16.04	16.11
Corporate Aaa utility bonds ⁶	8.72	7.67	9.01	9.17	8.46	8.12	8.90	9.92	12.68	15.65	14.95
Corporate, by years to maturity: ⁷											
5 years	8.10	6.85	7.47	7.70	7.96	7.25	7.75	9.40	12.80	13.25	13.78
10 years	8.00	7.05	7.67	8.00	8.18	7.60	7.98	9.35	12.40	13.00	13.99
20 years	7.60	7.20	7.80	8.35	8.30	7.75	8.20	9.08	12.30	13.00	14.00
30 years	7.60	7.20	7.80	8.35	8.30	7.95	8.25	9.10	12.30	13.00	14.00
Corporate (Moody's) ⁴	8.51	7.80	9.03	9.57	9.01	8.43	9.07	10.12	12.75	15.06	14.94
Industrials (40 bonds)	8.26	7.60	8.76	9.25	8.84	8.28	8.90	9.85	12.35	14.50	14.54
Railroads (15 bonds) ⁸	8.77	8.12	8.99	9.39	8.85	8.13	8.64	9.60	11.48	13.22	13.69
Public utilities (40 bonds)	8.68	7.83	9.27	9.68	9.17	8.58	9.22	10.39	13.15	15.62	15.33
Stocks (Standard & Poor's): ⁵											
Preferred (10 stocks) ⁹	7.22	7.23	8.24	8.36	7.98	7.61	8.25	9.11	10.60	12.36	12.53
Common: Composite (500 stocks)	3.83	3.06	4.47	4.31	3.77	4.62	5.28	5.47	5.26	5.20	5.81
Industrials (400 stocks)	3.62	2.79	4.13	3.96	3.48	4.43	5.06	5.20	4.95	4.90	5.48
Home mortgages: ¹⁰											
FHA insured, secondary market	9.03	8.19	9.55	9.19	8.82	8.68	9.70	10.87	13.44	16.29	15.31
Conventional, new-home ¹¹	8.52	8.30	9.22	9.10	8.99	8.95	9.68	11.15	13.95	16.52	15.79
Conventional, existing-home ¹¹	8.56	8.33	9.23	9.14	9.04	9.00	9.70	11.16	13.95	16.55	15.82

NA Not available. ¹ Yields on the more actively traded issues adjusted to constant maturities by the U.S. Treasury, based on daily closing bid prices. ² Unweighted averages for all outstanding notes and bonds in maturity ranges shown, based on daily closing bid prices. ³ Includes all bonds neither due nor callable in less than 10 years. ⁴ Source: Moody's Investors Service, New York, N.Y. ⁵ Source: Standard & Poor's Corp., New York, N.Y., *Standard & Poor's Outlook*, weekly. ⁶ Based on first trading day of each month, deferred call, new issue estimate. Source: Salomon Brothers, Inc., New York, N.Y., *An Analytical Record of Yields and Yield Spreads*. ⁷ Source: Scudder, Stevens & Clark, New York, N.Y., unpublished data. ⁸ Covers 23 bonds for period 1970-1981. ⁹ Yields based on 10 stocks, 4 yields. Issues converted to a price equivalent to \$100 par and a 7 percent annual dividend before averaging. ¹⁰ Averages based on quotations for 1 day each month as compiled by FHA. ¹¹ Primary market.

Source: Except as noted, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

NO. 871. SALES OF STOCKS AND OPTIONS ON REGISTERED EXCHANGES: 1970 TO 1982

[See also *Historical Statistics, Colonial Times to 1970, series X 517-530*]

EXCHANGE	Unit	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982
ALL EXCHANGES											
Market value, all sales ¹	Bil. dol.	136	125	167	203	198	269	323	522	533	657
Stocks: ² Market value	Bil. dol.	131	118	157	195	187	249	300	476	491	597
Shares	Million	4,539	4,846	6,231	7,036	7,023	9,483	10,850	15,486	15,910	22,414
Options: Market value	Mill. dol.	(NA)	(NA)	(NA)	11,734	10,899	19,703	22,860	45,789	41,696	53,660
Contracts	Million	(NA)	(NA)	(NA)	31	39	60	64	97	109	137
Rights and warrants:											
Market value	Mill. dol.	576	394	294	256	190	345	754	567	329	424
Number of units	Million	295	104	150	90	112	82	115	99	59	78
Option exercises: Value	Mill. dol.	(NA)	(NA)	(NA)	2,872	3,696	5,392	10,863	20,351	34,649	37,118
Shares	Million	(NA)	(NA)	(NA)	1	1	1	2	5	7	9
NEW YORK STOCK EXCHANGE											
Market value, all sales ¹	Bil. dol.	108	106	143	165	157	211	252	398	416	515
Stocks: ² Market value	Bil. dol.	103	99	134	165	157	210	251	398	416	514
Shares	Million	3,213	3,822	5,056	5,649	5,613	7,617	8,675	12,390	12,843	18,211
Rights and warrants:											
Market value	Mill. dol.	257	192	168	133	89	124	484	338	165	290
Number of units	Million	233	63	108	53	62	42	84	71	41	58
Sales by size: ³											
At 100-900 shares	Percent	92.4	91.0	89.2	87.3	85.4	82.9	81.4	80.1	77.6	73.2
At 1,000 shares and over	Percent	7.5	9.0	10.8	12.7	14.6	17.1	18.6	19.9	22.4	26.8

NA Not available. ¹ Includes bond sales through 1975, not shown separately. ² Includes voting trust certificates, American depositary receipts, and certificates of deposit for stocks. ³ Represents sales printed on tape by size on New York Stock Exchange. Source: New York Stock Exchange, Inc., New York, N.Y., *Fact Book*, annual.

Source: Except as noted, U.S. Securities and Exchange Commission, *SEC Monthly Statistical Review*.

NO. 872. SECURITY PRICES AND VOLUME OF TRADING: 1970 TO 1982

[Annual averages of monthly figures, except as noted. See also *Historical Statistics, Colonial Times to 1970*, series X 492-498]

CLASS OR ITEM	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Bond prices (dollars per \$100 bond):											
Standard & Poor's:											
Municipal ¹	72.3	85.4	76.3	68.9	72.5	81.3	77.9	73.4	57.4	43.2	41.8
Corporate AAA ¹	61.6	63.7	58.8	56.2	58.0	59.6	55.6	51.1	41.4	33.7	35.8
Stock prices:											
Standard & Poor's common index (500 stocks) (1941-43=10) ²	83.2	107.4	82.8	86.2	102.0	98.2	96.0	103.0	118.7	128.0	119.7
Industrial.....	91.3	120.4	92.9	96.6	114.4	108.4	106.2	114.8	134.5	144.2	133.6
N.Y. Stock Exchange common stock index (Dec. 31, 1965=50), composite..	45.7	57.4	43.8	45.7	54.5	53.7	53.7	58.3	68.1	74.0	68.9
Industrial.....	48.0	63.1	48.1	50.5	60.4	57.8	56.3	64.8	76.6	85.4	78.2
Transportation.....	32.1	37.7	31.9	31.1	39.6	41.1	43.3	47.3	60.5	72.6	60.4
Utility.....	37.2	37.7	29.8	31.5	37.0	40.9	39.2	38.2	37.3	38.9	39.8
Finance.....	54.6	70.1	49.7	47.1	52.9	55.2	56.7	61.4	64.3	73.5	72.0
American Stock Exchange Market Value Index (Aug. 31, 1973=100).....	96.63	103.80	79.97	83.06	101.63	116.18	144.37	195.53	300.94	543.58	282.62
Dow-Jones and Co. Inc., total (65 stocks) ³	243.9	296.7	237.3	247.3	303.9	301.7	283.6	293.5	328.2	364.6	345.4
Industrial (30 stocks).....	753.2	923.8	759.4	802.8	974.9	894.6	820.2	844.4	891.4	932.9	884.4
Transportation (20 stocks).....	152.4	180.6	164.1	163.4	214.0	225.2	222.6	237.8	307.2	398.6	356.8
Public utility (15 stocks).....	108.8	103.4	75.8	79.8	92.3	111.0	104.6	104.6	110.4	108.6	112.0
Wilshire 5000 equity index ⁴ (Dec. 31, 1980=1404.598).....	830.3	952.7	713.1	763.8	903.0	892.1	913.3	1,028.9	1,220.7	1,343.7	1,233.7
Standard & Poor's:											
Dividend-price ratio (percent).....	3.83	3.06	4.47	4.31	3.77	4.62	5.28	5.47	5.26	5.20	5.81
Earnings-price ratio (percent).....	6.45	7.12	11.60	9.14	8.90	10.79	11.95	13.46	12.66	11.87	11.77
Volume of trading:											
Value, NYSE ⁵ (bil. dol.).....	95.3	137.3	92.1	126.7	159.8	150.2	199.9	238.2	374.9	389.2	488.4
Average daily shares:											
NYSE ⁶ (mil.).....	11.6	16.1	12.9	18.6	21.2	20.9	28.6	32.2	44.9	46.9	65.1
ASE ⁷ (1,000).....	3,219	3,015	1,906	2,136	2,562	2,582	3,923	4,349	6,427	5,310	5,267

¹ Derived from average yields on basis of assumed 4 percent, 20-year bond; Wednesday closing prices. ² Effective July 1976, the index includes 400 industrial stocks (formerly 425), 20 transportation (formerly 15 rail), 40 public utility (formerly 60), and 40 financial stocks, not previously covered. ³ Source: U.S. Bureau of Economic Analysis. Based on stocks listed on the New York Stock Exchange. ⁴ Represents return on the market value of all common equity securities for which daily pricing is available. For 1970-1979, annual average of end of month figures; thereafter, annual average of daily figures. Source: Wilshire Financial Services, Santa Monica, California, releases. ⁵ Represents Dec. 31, 1970. ⁶ Source: New York Stock Exchange, Inc., New York, N.Y., *Fact Book*, annual. ⁷ Source: American Stock Exchange, New York, N.Y., *Amex Statistical Review*, annual.

Source: Except as noted, Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.NO. 873. NEW CORPORATE SECURITIES OFFERED FOR SALE, BY TYPE OF SECURITY AND ISSUER:
1970 TO 1982

[in millions of dollars. Estimated gross proceeds derived by multiplying principal amounts or number of units by offering prices. Covers substantially all new securities offered for cash sale in U.S. in amounts over \$100,000 and with terms of maturity of more than 1 year. Included are some unregistered securities offered privately for sale mainly to insurance companies as well as securities registered with the Securities and Exchange Commission under the terms of the Securities Act of 1933. See table 486 for new issues of State and local government securities. See also *Historical Statistics, Colonial Times to 1970*, series X 499-500 and X 505-506]

SECURITY AND ISSUER	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total	37,451	31,680	37,729	52,539	52,290	51,836	46,616	53,086	78,896	73,140	83,739
Publicly offered	32,524	22,903	31,028	41,759	35,910	32,211	28,398	37,014	65,562	65,601	73,659
Bonds and notes.....	24,365	12,899	25,335	31,492	25,263	21,929	18,881	26,468	44,650	38,965	45,211
Preferred stock.....	1,310	2,998	1,745	3,088	2,353	2,421	1,759	1,965	3,194	1,633	5,050
Common stock.....	6,849	7,006	3,947	7,179	8,296	7,857	7,760	8,581	18,718	25,003	23,398
Privately placed	4,926	8,781	6,701	10,779	16,384	19,628	16,218	16,072	12,334	7,539	10,080
Bonds and notes.....	4,658	7,798	6,150	10,172	15,927	17,943	16,994	14,383	11,618	6,992	9,625
Preferred stock.....	80	944	511	371	451	1,495	1,077	1,562	439	155	85
Common stock.....	188	37	28	235	9	188	178	127	278	392	390
Issuer:											
Manufacturing.....	10,647	4,832	10,408	18,651	15,493	13,754	11,062	11,562	24,398	17,631	16,558
Extractive.....	1,812	1,060	970	1,628	1,762	2,682	3,100	3,192	4,893	9,215	7,954
Electric, gas, water.....	11,009	10,269	12,837	15,894	14,415	13,705	12,253	13,736	15,941	14,620	18,934
Communication.....	5,291	4,872	3,930	4,464	3,562	4,442	3,640	4,894	7,401	6,159	4,546
Transportation.....	1,253	811	1,005	2,635	3,626	1,802	1,763	3,296	3,727	2,779	2,328
Financial and real estate.....	5,112	8,085	6,779	6,838	10,222	11,690	10,861	12,066	15,638	17,349	26,329
Commercial and other.....	2,328	1,748	1,802	2,429	3,148	3,164	3,939	3,744	6,898	5,384	7,059

Source: U.S. Securities and Exchange Commission, *SEC Monthly Statistical Review*.

No. 874. SECURITIES LISTED ON N.Y. STOCK EXCHANGE: 1970 TO 1982

[As of December 31]

ITEM	Unit	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Bonds:												
Face value.....	Bil. dol.....	135	142	291	334	401	497	509	526	602	681	793
Market value.....	Bil. dol.....	113	121	255	315	402	480	465	460	508	574	766
Average price.....	Percent.....	83.60	85.16	87.68	91.89	100.39	96.52	91.37	87.36	84.41	84.24	96.67
Stocks:												
Shares.....	Billion.....	16.1	21.0	21.7	22.5	24.5	26.1	27.6	30.0	33.7	38.3	39.5
Market value.....	Bil. dol.....	636	721	511	685	858	797	823	961	1,243	1,144	1,305
Average price.....	Dollars.....	39.61	34.39	23.51	30.48	35.03	30.53	29.84	31.99	36.87	29.87	33.03
Cash dividends on common stock.....												
.....	Bil. dol.....	19.8	23.6	25.7	26.9	30.6	36.3	41.2	46.9	53.1	60.6	62.2
Industrial.....	Bil. dol.....	13.6	15.5	17.0	17.6	20.2	23.9	26.6	30.3	34.5	38.7	39.4
Transportation.....	Bil. dol.....	.5	.5	.6	.6	.6	.8	.9	1.0	1.2	1.3	1.0
Utilities.....	Bil. dol.....	4.5	5.5	6.0	6.7	7.7	9.0	10.7	12.2	13.3	15.8	16.9
Finance.....	Bil. dol.....	1.1	2.1	2.1	1.9	2.1	2.6	2.9	3.5	4.2	4.9	5.0

Source: New York Stock Exchange, Inc., New York, N.Y., *Fact Book*, annual.

No. 875. STOCK OWNERSHIP—CHARACTERISTICS OF SHAREOWNERS: 1959 TO 1981

[In thousands. Includes outlying areas, most members of the Armed Forces, citizens living abroad, and, except for income, minor children. Represents all publicly owned issues of common and preferred stocks. Based on national probability samples; see source for detailed explanation]

CHARACTERISTIC	1959	1970	1975	1980	1981	CHARACTERISTIC	1959	1970	1975	1980	1981
Total ¹	12,490	30,850	25,270	30,200	32,260	Income: ⁴					
Male.....	5,740	15,689	12,698	15,666	17,120	Under \$5,000.....	3,518	2,389	780	1,742	2,164
Female.....	6,347	15,161	12,508	14,534	15,140	\$5,000-\$9,999.....	5,826	5,779	2,636	2,691	2,537
Age:						\$10,000-\$14,999.....	1,741	8,346	4,552	3,180	2,537
Under 21 years.....	197	2,221	1,818	2,308	2,321	\$15,000-\$24,999.....	689	7,870	8,778	6,990	6,829
21-34 years.....	2,444	4,500	2,838	6,407	7,653	\$25,000-\$49,999.....			5,426	11,823	12,090
35-44 years.....	2,064	5,801	3,976	9,925	5,624	\$50,000 and over.....	314	4,114	1,216	3,982	5,457
45-54 years.....	2,800	7,555	5,675	5,458	5,439	Residence by SMSA size: ⁵					
55-64 years.....	2,666	6,084	5,099	5,144	6,144	Under 100,000.....	(NA)	175	328	204	208
65 years and over.....	2,113	4,330	5,800	4,589	5,079	100,000-249,000.....	(NA)	2,245	2,059	1,883	2,278
Education:						250,000-499,999.....	(NA)	2,686	2,691	2,921	3,146
High school: ²						500,000-999,999.....	(NA)	3,712	3,257	4,345	4,532
3 years or less.....	2,804	3,566	1,621	1,746	1,861	1,000,000 and over.....	(NA)	14,881	11,893	15,447	16,788
4 years.....	3,130	8,697	6,580	5,737	6,045	Nonmetropolitan areas.....	(NA)	6,913	4,978	5,400	5,308
College: ²											
1-3 years.....	2,587	5,867	5,301	9,353	10,093						
4 years or more.....	3,566	9,999	9,886	10,613	11,880						
Minors ³	197	2,221	1,818	2,308	2,321						

NA Not available. ¹ Includes small number of shareowners not distributed by breakdown. ² Persons 21 years old and over. ³ Shareowners whose stockholdings are registered in accordance with the Gifts to Minors Statutes. ⁴ Adult shareowners only. ⁵ SMSA=Standard metropolitan statistical area. For definition, see Appendix II.

Source: New York Stock Exchange, Inc., New York, N.Y., *Shareownership*, 1959, 1970, 1975, 1980, and 1981.

No. 876. COMMODITY FUTURES TRADING ON U.S. EXCHANGES—VOLUME OF TRADING: 1970 TO 1982

[In thousands. 1970 for year ending June 30; thereafter, for years ending December 31]

ITEM	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Number of contracts traded	13,356	25,826	27,733	32,200	36,876	42,847	58,462	75,966	92,096	98,522	112,401
Grains and feeds ¹	5,977	9,997	13,420	14,595	17,281	19,668	22,365	27,695	36,337	32,308	26,701
Livestock and meat ²	2,574	5,119	4,629	5,680	5,325	5,666	9,680	11,902	11,639	9,378	11,825
Foods ³	3,458	4,949	4,154	3,692	3,868	5,161	5,149	5,925	8,659	7,255	6,640
Raw materials ⁴	351	1,514	1,465	1,609	2,776	2,753	3,399	4,618	5,598	4,905	6,080
Precious metals ⁵	995	3,820	3,826	6,376	7,209	8,232	13,983	17,996	13,171	15,690	18,590
Financial instruments ⁶	-	-	-	20	239	780	2,325	5,607	12,469	22,864	33,713
Currencies ⁷	1	425	241	228	198	586	1,561	2,222	4,223	6,122	8,852

- Represents zero. ¹ Wheat, corn, oats, rye, soybeans, soybean meal, sunflower seeds, and grain sorghums. ² Cattle, feeder cattle, hogs, pork bellies, imported lean beef, broilers, and turkeys. ³ Eggs, potatoes, coffee, cocoa, sugar, butter, orange juice, and edible oils. ⁴ Lumber, stud lumber, plywood, cotton, wool, oil and petroleum products, copper, lead, mercury, zinc, nickel, rubber, and tin. ⁵ Gold, silver, silver coins, platinum, and palladium. ⁶ GNMA certificates; Treasury bills, bonds, and notes; commercial paper; domestic certificates of deposit (CD); Eurodollar CD; and stock indexes. ⁷ Italian lira, Canadian dollars, French francs, Deutsche marks, Dutch guilders, British pounds, Japanese yens, Swiss francs, Belgian francs, and Mexican pesos.

Source: U.S. Commodity Futures Trading Commission, *Annual Report*. Data from Futures Industry Association, Washington, D.C.

NO. 877. MUTUAL FUNDS—NET ASSETS, SALES, AND REDEMPTIONS: 1970 TO 1982

[In billions of dollars, except number of funds. See also *Historical Statistics, Colonial Times to 1970*, series X 536-539]

TYPE OF FUND	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Number of funds	361	410	421	431	426	452	477	505	524	564	669	857
Assets ¹	47.6	59.8	46.5	35.8	45.8	51.0	48.5	55.8	94.5	134.7	241.4	296.6
Money market funds	(x)	(x)	(x)	1.7	3.6	9.4	3.5	10.9	45.2	74.4	181.9	206.6
Equity funds	45.1	55.9	43.0	30.9	37.5	39.2	34.1	32.7	35.9	44.4	41.2	53.6
Income and bond funds	2.5	3.9	3.5	3.2	4.7	7.8	8.4	9.3	10.1	11.1	11.0	15.8
Municipal bond funds	(x)	(x)	(x)	(x)	(x)	.5	2.3	2.6	3.0	2.9	3.1	7.4
Limited maturity municipal bonds ²	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	1.9	4.2	13.2
Sales ¹	4.6	4.9	4.4	5.3	10.1	13.7	17.1	37.2	119.3	247.5	472.2	626.0
Money market funds	(x)	(x)	(x)	2.2	6.8	9.4	10.7	30.5	111.9	232.2	451.9	580.8
Equity funds	4.2	4.3	3.9	2.6	2.6	2.7	2.4	2.8	3.1	5.6	6.0	8.3
Income and bond funds .....	.4	.6	.5	.5	.7	1.2	1.6	2.0	2.0	2.6	2.3	4.0
Municipal bond funds	(x)	(x)	(x)	(x)	(x)	.5	2.1	1.8	1.7	1.8	1.5	3.5
Limited maturity municipal bonds ²	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	5.3	10.5	29.4
Redemptions ¹	3.0	6.6	5.7	3.9	9.6	16.4	16.7	31.5	86.8	216.5	362.6	589.3
Money market funds	(x)	(x)	(x)	.6	5.9	9.6	10.7	24.3	78.4	204.5	346.7	559.6
Equity funds	2.8	6.2	5.2	3.0	3.3	6.0	4.7	5.1	5.7	5.7	5.1	5.1
Income and bond funds .....	.2	.4	.4	.3	.4	.8	.8	1.0	1.4	1.5	1.6	1.7
Municipal bond funds	(x)	(x)	(x)	(x)	(x)	(2)	.5	1.1	.9	1.0	.8	.7
Limited maturity municipal bonds ²	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	3.8	8.3	22.2

X Not applicable. Z Less than \$50 million. ¹ Includes funds not shown separately. ² The average maturity of the portfolio is generally less than two years.

Source: Investment Company Institute, Washington, D.C., *Mutual Fund Fact Book*, annual.

NO. 878. U.S. LIFE INSURANCE COMPANIES—SUMMARY: 1970 TO 1982

[As of December 31 or calendar years as applicable. Covers domestic and foreign business of U.S. companies. See also *Historical Statistics, Colonial Times to 1970*, series X 879 and X 890-907]

ITEM	Unit	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982
U.S. companies	Number	1,780	1,757	1,746	1,742	1,789	1,840	1,895	1,958	1,991	2,048
Sales ¹	Bil. dol	206.8	323.5	316.5	352.2	407.7	437.9	526.8	654.7	1,138.6	919.9
Ordinary	Bil. dol	134.8	199.0	207.1	233.6	277.3	304.2	359.1	461.5	700.1	661.1
Group ¹	Bil. dol	65.4	117.8	102.7	112.2	123.8	127.7	162.4	189.6	436.0	256.9
Industrial	Bil. dol	6.6	6.7	6.7	6.4	6.5	6.0	5.3	3.6	2.5	1.9
Voluntary termination, ordinary policies: ²											
All policies in force in U.S.	Rate	5.9	6.5	6.7	6.6	6.6	6.6	7.2	8.1	8.9	10.0
In force 2 years or more	Rate	3.9	4.5	4.5	4.6	4.7	4.6	5.1	5.8	6.6	7.6
Income	Bil. dol	49.1	70.0	78.0	88.6	98.0	108.2	119.1	130.9	147.2	166.1
Life insurance premiums	Bil. dol	21.7	27.8	29.3	31.4	33.8	36.8	39.1	40.8	45.7	49.5
Percent of total	Percent	44.2	39.7	37.6	35.4	34.5	33.8	32.8	31.2	31.0	29.8
Annuity considerations	Bil. dol	3.7	7.7	10.2	14.0	15.0	16.3	17.9	22.4	26.3	33.5
Health insurance premiums	Bil. dol	11.4	17.1	19.1	21.1	23.6	25.8	27.9	29.4	31.7	35.1
Investment and other	Bil. dol	12.3	17.4	19.4	22.2	25.7	29.4	34.2	38.3	43.5	48.0
Disbursements	Bil. dol	39.0	53.3	58.2	63.0	69.0	72.6	81.1	88.2	101.8	113.3
Payments to policyholders ³	Bil. dol	25.6	34.7	38.1	41.0	44.4	47.8	53.7	59.0	65.1	71.2
Percent of total	Percent	65.6	65.1	65.5	65.1	64.3	65.8	66.2	66.9	63.9	62.8
Death payments	Bil. dol	7.2	8.9	9.3	9.7	10.2	11.1	11.8	12.9	13.6	14.5
Matured endowments	Bil. dol	1.0	1.0	1.0	1.0	.9	.9	.9	.8	.7	.6
Annuity payments	Bil. dol	1.7	2.9	3.2	3.9	4.6	5.1	6.6	7.4	9.6	10.3
Policy dividends	Bil. dol	3.8	4.8	5.1	5.6	6.3	6.8	7.6	8.1	9.3	9.6
Surrender values	Bil. dol	2.9	3.7	3.8	4.2	4.3	4.5	5.5	6.4	7.1	9.8
Disability benefits	Bil. dol .....	.2	.4	.4	.5	.5	.5	.6	.5	.6	.5
Commissions, expenses, etc.	Bil. dol	12.9	17.9	19.4	21.3	23.9	23.7	25.9	27.8	35.1	40.3
Dividends to stockholders	Bil. dol .....	.5	.7	.7	.7	.8	1.1	1.5	1.4	1.6	1.8
Taxes, licenses and fees	Bil. dol	2.2	3.4	3.5	4.0	4.4	5.1	5.5	4.8	4.2	4.4
Federal income taxes	Bil. dol	1.2	1.9	1.9	2.2	2.5	3.0	3.3	2.6	1.8	1.6
Employed in insurance ⁴	1,000	1,000	1,460	1,620	1,640	1,675	1,715	1,775	1,830	1,880	1,905

¹ Includes Servicemen's Group Life Insurance of \$16.8 billion in 1970, \$28.8 billion in 1974, \$1.7 billion in 1975, and \$45.6 billion in 1981, as well as \$84.4 billion of Federal Employees' Group Life Insurance in 1981. ² Rate is ratio of number of policies lapsed or surrendered (for cash, extended term), less reinstatements to mean number of policies in force. Includes foreign companies' policies, primarily Canadian. ³ Includes operations of accident and health departments of life insurance companies, not shown separately. ⁴ Includes life, health, and property/casualty insurance.

Source: American Council of Life Insurance, Washington, D.C. Based on data from *Life Insurance Fact Book*, and unpublished data.

No. 879. LIFE INSURANCE IN FORCE IN THE U.S.—SUMMARY: 1960 TO 1982

[As of December 31 or calendar years, as applicable. Covers life insurance with life insurance companies only. Represents all life insurance in force on lives of U.S. residents whether issued by U.S. or foreign companies. "Families" includes families, subfamilies, and unrelated individuals; see definitions, p. 4. See also *Historical Statistics, Colonial Times to 1970*, series X 879-889]

YEAR	LIFE INSURANCE IN FORCE						COVERAGE (\$1,000)		Dispos- able personal income per family (\$1,000)	AVERAGE SIZE POLICY IN FORCE (dollars)			
	All poli- cies, number (mil.)	Value (bil. dol.)					Per family	Per insured family		Ordinary	Group	Indus- trial	Cred- it
		Total	Ordinary	Group	Indus- trial	Cred- it ¹							
1960	282	586	340	175	39.6	31.2	10.2	12.7	6.1	3,360	4,030	390	680
1965	320	901	498	306	39.8	57.0	14.6	17.8	7.7	4,680	5,060	450	850
1970	355	1,402	731	545	38.6	87.9	20.7	24.4	10.3	6,110	6,910	500	1,000
1971	357	1,503	788	581	39.2	95.0	21.7	25.5	10.8	6,440	7,170	520	1,080
1972	365	1,628	849	631	40.0	108.8	22.9	26.9	11.4	6,790	7,730	530	1,190
1973	369	1,778	928	708	40.6	101.2	24.4	28.8	12.6	7,230	8,010	540	1,300
1974	380	1,985	1,009	827	39.4	109.6	26.5	31.2	13.3	7,690	8,840	550	1,310
1975	380	2,140	1,083	905	39.4	112.0	28.1	33.0	14.4	8,090	9,360	570	1,410
1976	382	2,343	1,178	1,003	39.2	123.6	30.1	35.0	15.3	8,610	10,010	580	1,580
1977	390	2,583	1,269	1,115	39.0	139.4	32.4	37.7	16.5	9,240	10,550	590	1,760
1978	401	2,870	1,425	1,244	38.1	163.1	35.1	40.8	17.9	10,010	11,260	600	1,950
1979	407	3,222	1,586	1,419	37.8	179.3	38.5	44.8	19.6	10,890	12,350	610	2,120
1980	402	3,541	1,761	1,579	36.0	165.2	41.5	48.3	21.4	11,920	13,410	620	2,210
1981	400	4,064	1,978	1,899	34.5	162.4	45.7	53.2	22.7	13,310	15,400	630	2,220
1982	390	4,477	2,217	2,066	32.8	161.1	49.3	57.3	23.9	15,140	16,630	630	2,410

¹ Insures borrower to cover loan in case of death.

Source: American Council of Life Insurance, Washington, D.C., *Life Insurance Fact Book*, annual.

No. 880. LIFE INSURANCE—INSURANCE IN FORCE AND BENEFIT PAYMENTS BY STATE: 1982

[Applies to policyholders and payments in the U.S.]

DIVISION AND STATE	INSURANCE IN FORCE			Benefit pay- ments ¹ (mil. dol.)	DIVISION AND STATE	INSURANCE IN FORCE			Benefit pay- ments ¹ (mil. dol.)
	Policies (1,000)	Value (bil. dol.)	Avg. per family (dol.)			Policies (1,000)	Value (bil. dol.)	Avg. per family (dol.)	
U.S.....	389,560	4,476.7	49,300	47,993.6	So. Atl.....	74,465	719.3	47,800	7,176.3
Regions:					Del.....	1,442	16.3	69,700	149.1
Northeast.....	79,856	984.4	50,900	12,458.1	Md.....	7,795	88.6	54,200	921.7
No. Central.....	103,072	1,197.8	52,400	13,232.1	D.C.....	2,549	33.3	106,700	195.9
South.....	148,844	1,461.5	48,600	13,601.2	Va.....	10,532	111.2	53,700	994.9
West.....	57,788	833.2	44,900	8,702.2	W. Va.....	3,249	28.7	39,200	291.6
N. Eng.....	20,279	250.6	50,200	3,179.3	N.C.....	12,491	105.1	45,100	1,010.2
Maine.....	1,762	16.8	37,000	205.8	N.C.....	7,659	54.6	46,100	469.1
N.H.....	1,601	18.1	47,200	184.7	Ga.....	12,410	112.1	53,100	911.4
Vt.....	766	8.5	40,000	100.2	Fla.....	16,398	169.4	38,300	2,238.4
Mass.....	8,472	110.0	47,000	1,298.1	E. So. Cent.....	31,183	248.7	45,400	2,249.8
R.I.....	1,938	19.2	49,800	240.5	Ky.....	6,119	55.3	40,200	531.2
Conn.....	5,740	78.0	64,400	1,150.0	Tenn.....	9,318	86.3	49,400	815.3
Mid. Atl.....	59,577	733.8	51,200	9,278.8	Ala.....	11,855	70.5	46,700	611.5
N.Y.....	25,197	341.7	49,200	4,412.6	Miss.....	3,891	36.6	40,100	291.6
N.J.....	11,712	168.1	60,000	2,067.7	W. So. Cent.....	43,196	493.5	51,500	4,175.3
Pa.....	22,668	224.0	48,800	2,798.5	Ark.....	2,849	33.2	38,000	299.6
E. No. Cent.....	73,942	840.6	52,700	9,625.6	La.....	10,068	84.7	53,100	689.0
Ohio.....	19,069	214.8	52,300	2,560.6	Okl.....	5,109	60.8	47,800	529.6
Ind.....	9,776	104.4	49,100	1,175.9	Tex.....	25,170	314.8	53,900	2,657.1
Ill.....	21,114	246.7	55,800	2,834.2	Mt.....	17,380	223.3	47,300	2,211.4
Mich.....	16,291	187.7	54,200	2,030.8	Mont.....	1,130	13.2	40,600	136.8
Wis.....	7,692	87.0	47,500	1,024.1	Idaho.....	1,371	15.9	44,000	174.4
W. No. Cent.....	29,130	357.0	51,800	3,606.5	Wyo.....	672	9.5	46,100	87.6
Minn.....	6,596	89.5	55,300	859.3	Colo.....	4,836	70.0	54,600	628.9
Iowa.....	4,855	59.6	51,400	685.3	N. Mex.....	1,750	22.5	44,000	209.0
Mo.....	8,698	95.6	48,600	947.3	Ariz.....	3,972	48.5	43,100	577.5
N. Dak.....	1,058	14.5	54,500	117.2	Utah.....	2,148	26.4	49,000	237.1
S. Dak.....	996	12.7	48,500	128.9	Nev.....	1,499	17.3	45,100	160.0
Nebr.....	2,768	34.9	54,900	377.8	Pac.....	40,408	609.8	44,100	6,490.8
Kans.....	4,159	50.2	51,800	490.7	Wash.....	5,328	75.1	41,900	810.4
					Oreg.....	3,138	45.4	40,100	529.3
					Calif.....	29,439	455.6	43,900	4,846.3
					Alaska.....	670	10.0	56,400	62.4
					Hawaii.....	1,833	23.7	63,700	242.4

¹ Comprises death payments, matured endowments, disability and annuity payments, surrender values, and policy dividends.

Source: American Council of Life Insurance, Washington, D.C., *Life Insurance Fact Book*, annual.

NO. 881. U.S. LIFE INSURANCE COMPANIES—FINANCIAL ITEMS: 1970 TO 1982

[In billions of dollars, except percent. As of December 31. See also *Historical Statistics, Colonial Times to 1970*, series X 908-917]

ITEM	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Assets	207.3	252.4	263.3	289.3	321.6	351.6	390.0	432.3	479.2	525.8	588.2
Government securities.....	11.1	11.4	12.0	15.2	20.3	23.6	26.8	29.7	33.0	39.5	55.5
Corporate securities.....	88.5	117.7	118.5	133.9	154.9	171.7	191.8	208.8	227.0	241.5	268.5
Percent of total assets.....	42.7	46.6	45.0	46.3	48.2	48.8	49.1	48.3	47.4	45.9	45.7
Bonds.....	73.1	91.8	96.7	105.8	120.7	137.9	156.0	169.0	179.6	193.8	212.8
Stocks.....	15.4	25.9	21.9	28.1	34.3	33.8	35.5	39.8	47.4	47.7	55.7
Mortgages.....	74.4	81.4	86.2	89.2	91.8	96.8	106.2	118.4	131.1	137.7	142.0
Real estate.....	6.3	7.7	8.3	9.6	10.5	11.1	11.8	13.0	15.0	18.3	20.6
Policy loans.....	16.1	20.2	22.9	24.5	25.8	27.6	30.1	34.8	41.4	48.7	53.0
Other.....	10.9	14.1	15.4	16.9	18.5	21.1	23.7	27.6	31.7	40.1	48.6
Interest earned on assets ¹ (percent).....	5.30	5.88	6.25	6.36	6.55	6.89	7.31	7.73	8.02	8.57	8.91
Liabilities ²	189.9	232.5	244.7	268.7	299.5	328.1	363.7	402.3	444.8	488.4	546.7
Policy reserves ²	167.8	204.5	216.5	237.1	262.8	287.9	318.5	351.6	390.4	428.0	479.4
Capital and surplus ²	17.3	19.9	18.6	20.6	22.0	23.6	26.2	30.0	34.4	37.4	41.5

¹ Net rate. ² Includes business of accident and health departments of U.S. life insurance companies.

Source: American Council of Life Insurance, Washington, D.C., *Life Insurance Fact Book*, annual.

NO. 882. U.S. LIFE INSURANCE COMPANIES—NEW LONG-TERM INVESTMENTS: 1970 TO 1982

[In billions of dollars, except percent. Long-term investments are investments of over 1 year in length. Minus sign (—) indicates decrease]

ITEM	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total	23.9	32.2	37.3	39.6	35.5	42.5	55.4	66.6	68.8	72.6	77.9	83.7	110.5
Annual percent change ¹	—3	34.7	15.9	6.2	—10.2	19.7	30.2	20.3	3.2	5.6	7.3	7.4	32.1
Government securities.....	.8	1.6	1.6	1.4	1.5	3.7	7.3	7.5	6.5	6.9	7.0	10.6	24.3
Corporate securities.....	10.9	18.5	22.7	20.9	16.1	22.5	31.7	37.8	36.0	33.5	36.4	42.5	58.8
Bonds.....	6.8	11.7	14.2	12.7	11.3	16.6	24.0	30.2	28.0	23.1	22.3	23.0	33.0
Stocks.....	4.1	6.8	8.5	8.2	4.8	5.9	7.7	7.6	8.0	10.4	14.1	19.5	25.8
Mortgages.....	7.2	7.6	8.7	11.5	11.3	9.6	9.8	14.2	17.8	20.7	19.7	13.5	11.5
Real estate.....	.9	1.1	1.0	1.2	1.3	2.1	1.8	2.0	2.2	2.8	3.3	4.5	4.5
Policy loans.....	4.1	3.4	3.3	4.6	5.3	4.6	4.8	5.1	6.3	8.7	11.5	12.6	11.4

¹ For 1970, change from 1969. For explanation of annual percent change, see Guide to Tabular Presentation.

Source: American Council of Life Insurance, Washington, D.C., *Life Insurance Fact Book*, annual.

NO. 883. PROPERTY AND LIABILITY INSURANCE: 1970 TO 1982

[In millions of dollars, except companies reporting. Premiums written represent total premiums on all insurance policies written by companies, with inception dates in years shown. Minus sign (—) indicates loss. See also *Historical Statistics, Colonial Times to 1970*, series X 918, 923, 928, 933, and 940]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982, est.
Companies reporting	2,727	2,934	2,886	2,880	2,940	2,938	2,867	2,867	2,953	2,994
Premiums written ¹	32,867	45,152	49,967	60,418	72,397	81,690	90,123	95,569	99,276	103,580
Auto liability.....	8,958	12,010	13,315	16,052	18,829	20,383	22,102	23,319	24,395	23,924
Physical damage, auto.....	4,824	7,064	7,823	9,565	11,521	12,835	14,536	15,833	16,748	16,164
Liability, other than auto.....	2,140	2,990	3,981	5,384	6,794	7,708	7,817	7,692	7,385	6,048
Medical malpractice.....	(NA)	(NA)	895	1,133	1,194	1,216	1,204	1,276	1,338	1,265
Fire ²	3,147	3,538	3,691	4,102	4,415	4,675	4,781	4,784	4,817	4,882
Homeowners multiple peril.....	2,565	4,156	4,729	5,689	6,766	7,792	8,792	9,821	10,780	10,973
Commercial multiple peril.....	1,331	2,857	3,176	4,052	4,891	5,830	6,667	6,886	6,870	6,975
Workers' compensation.....	3,492	5,473	6,186	7,534	9,261	11,300	13,164	14,239	14,616	13,957
Inland marine.....	812	1,169	1,266	1,444	1,584	1,667	2,061	2,291	2,428	2,475
Ocean marine.....	465	765	861	902	953	1,000	1,009	1,065	1,127	(NA)
Surety and fidelity.....	562	748	789	835	912	1,076	1,155	1,248	1,351	(NA)
Burglary and theft.....	135	130	120	124	129	133	140	136	128	(NA)
Crop-hail.....	125	260	312	325	340	351	396	417	504	(NA)
Boiler and machinery.....	115	141	173	170	213	256	283	293	298	(NA)
Glass.....	40	34	32	32	34	35	33	32	31	(NA)
Statutory underwriting gain.....	77	—1,878	—3,594	—1,559	1,928	2,548	24	—1,712	—4,464	—8,270
Policyholders' dividends.....	504	767	833	830	915	1,252	1,324	1,622	1,824	1,972
Net underwriting gain.....	—426	—2,645	—4,227	—2,189	1,112	1,286	—1,301	—3,334	—6,288	—10,424
Net investment income.....	³ 2,005	³ 3,833	³ 4,150	³ 4,806	5,816	7,290	9,279	11,083	13,248	(NA)
Net income before taxes.....	1,579	1,188	77	2,617	6,928	8,586	7,978	7,730	6,961	(NA)
Assets	³ 58,594	³ 82,115	³ 94,116	105,586	126,613	149,097	174,228	197,661	212,302	231,400
Policyholders' surplus.....	³ 18,520	³ 20,898	³ 25,303	24,678	29,300	35,379	42,456	52,196	53,804	60,600

NA Not available. ¹ Total includes all property, liability, and allied lines; other data are for principal lines only.

² Includes extended coverage and allied lines. ³ Includes duplication because of interownerships within company groups.

Source: Insurance Information Institute, New York, N.Y., *Insurance Facts*, annual. Data from A. M. Best Company, Oldwick, N.J.

No. 884. AUTOMOBILE INSURANCE: 1970 TO 1982

[In millions of dollars, except as indicated. Premiums earned basis. See also *Historical Statistics, Colonial Times to 1970*, series Q 163-174]

ITEM	1970	1975	1976	1977	1978	1979	1980	1981	1982	
									Private passenger	Commercial
Companies reporting	925	1,275	1,315	1,363	1,381	1,399	1,470	1,507	1,531	
Total insurance:										
Premiums earned.....	14,612	23,860	23,970	29,074	32,393	35,366	37,621	39,752	35,639	6,966
Losses paid ¹	11,198	19,657	18,541	20,264	22,755	26,130	27,887	30,605	28,996	5,941
Percent of premiums.....	76.6	82.4	77.4	69.7	70.2	73.9	74.1	77.0	81.4	85.3
Bodily injury liability: ²										
Premiums earned.....	9,559	15,150	15,087	18,130	19,997	21,544	22,480	23,623	20,953	4,437
Losses paid ¹	7,547	12,277	11,599	13,063	14,252	16,016	17,221	19,154	17,719	4,088
Percent of premiums.....	79.0	81.0	76.9	72.1	71.3	74.3	76.6	81.1	84.6	92.1
Physical damage: ³										
Premiums earned.....	5,053	8,710	8,883	10,944	12,396	13,822	15,141	16,130	14,686	2,529
Losses paid ¹	3,651	7,380	6,941	7,201	8,503	10,114	10,665	11,452	11,277	1,853
Percent of premiums.....	72.3	84.7	78.1	65.8	68.6	73.3	70.4	71.0	76.8	73.3

¹Includes adjusting expenses. ²Includes property damage. ³Covers auto fire, theft, collision, and comprehensive.

Source: The National Underwriter Co., Cincinnati, Ohio, *Argus F. C. & S. Chart*, annual (copyright).

No. 885. PRIVATE HEALTH INSURANCE ORGANIZATIONS—INCOME AND EXPENSES: 1970 TO 1981

[In millions of dollars, except percent. Minus sign (—) indicates loss. See also *Historical Statistics, Colonial Times to 1970*, series X 957-962]

ITEM	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
All organizations:											
Total premium income.....	17,075	22,358	24,845	27,777	32,437	38,172	44,619	49,692	55,859	63,624	73,418
Claims expense.....	15,619	19,086	21,091	24,466	30,072	35,471	40,013	45,044	50,176	58,619	66,916
Percent of premium income.....	91.5	85.4	84.9	88.1	92.7	92.9	89.7	90.6	89.8	92.1	91.0
Operating expense.....	2,390	3,182	3,468	3,887	4,193	4,789	5,464	6,194	7,116	8,207	9,648
Net underwriting gain.....	-934	89	286	-576	-1,828	-2,088	-858	-1,546	-1,433	-3,202	-3,046
Blue Cross-Blue Shield:											
Premium income.....	7,371	9,923	11,059	12,367	14,446	17,268	19,553	21,547	23,471	26,334	30,447
Claims expense.....	7,080	8,991	10,004	11,640	14,192	16,227	17,626	19,465	21,724	25,466	29,209
Operating expense.....	534	689	775	911	1,063	1,193	1,330	1,502	1,716	1,951	2,250
Net underwriting gain.....	-224	243	280	-184	-609	-151	597	580	31	-1,083	-1,012
Insurance companies:											
Premium income.....	8,636	11,052	11,944	13,151	14,849	16,752	19,335	20,867	23,035	25,131	25,903
Claims expense.....	7,531	8,815	9,480	10,802	13,157	15,493	17,206	19,057	20,145	21,678	22,248
Net underwriting gain.....	-1,587	-161	-108	-473	-1,216	-2,064	-1,623	-2,359	-1,783	-1,989	-2,513
Other plans, premium income.....	1,068	1,383	1,842	2,259	3,142	4,151	5,730	7,279	9,353	12,159	17,068

Source: Through 1975, U.S. Social Security Administration, *Social Security Bulletin*, various issues, and unpublished data; thereafter, U.S. Health Care Financing Administration, *Health Care Financing Review*, Summer 1981, and unpublished data.

No. 886. HEALTH INSURANCE—PREMIUM INCOME AND BENEFIT PAYMENTS: 1970 TO 1981

[In billions of dollars. Represents premium income of and benefits paid by insurance companies only. Beginning 1975, includes Puerto Rico and other U.S. outlying areas. Excludes Blue Cross-Blue Shield plans, medical-society sponsored plans, and all other independent plans]

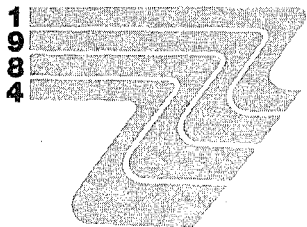
ITEM	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Premiums¹	11.5	14.8	16.1	17.9	20.8	24.5	28.7	32.7	37.9	43.7	49.0
Group policies ²	8.1	10.9	11.8	13.2	15.9	19.4	23.2	26.9	31.7	36.8	42.5
Individual and family policies.....	3.4	3.8	4.3	4.7	4.9	5.1	5.4	5.8	6.2	6.9	6.5
Benefit payments³	9.1	10.6	11.9	13.6	16.5	20.2	22.1	26.4	31.7	37.0	41.6
Group policies ²	7.5	8.9	9.8	11.4	14.2	17.8	19.5	22.9	27.9	33.0	37.7
Individual and family policies.....	1.6	1.7	2.1	2.2	2.3	2.4	2.6	3.5	3.8	4.0	3.9
Type of coverage:											
Loss of income.....	1.8	2.0	2.2	2.5	2.7	2.9	3.1	3.4	4.7	5.3	5.2
Medical expense.....	7.1	8.5	9.4	10.8	13.2	16.1	17.6	21.2	24.8	28.9	33.0
Dental.....	.1	.2	.3	.3	.6	1.2	1.5	1.8	2.2	2.8	3.5

¹1970 refers to written premiums; thereafter, refers to earned premiums.

²Insurance company group premiums and benefit payments for 1975 through 1981 include Administrative Service Agreements and Minimum Premium Plans. Amounts for prior years contain only a portion of these data.

³Beginning 1972, excludes accidental death and dismemberment benefits and accident medical reimbursement benefits.

Source: Health Insurance Association of America, Washington, D.C., *Source Book of Health Insurance Data*, annual.



This section relates to the place and behavior of the business firm, and to business initiative in the American economy. It includes data on the number, type, and size of businesses; financial data of domestic and multinational U.S. corporations and their foreign affiliates; business investment, expenditures, and profits; business sales and inventories; consumer cooperatives; and business failures. Additional business data may be found in other sections, particularly 29 and 30.

The principal sources of these data are the *Survey of Current Business*, published by the Bureau of Economic Analysis (BEA); the *Federal Reserve Bulletin*, issued by the Board of Governors of the Federal Reserve System; the annual *Statistics of Income* reports of the Internal Revenue Service (IRS); *The Failure Record Through (Year)*, issued by Dun & Bradstreet, New York; and *Fortune* and *The Fortune Directory*, issued by Time, Inc., New York. Other sources are publications of the Securities and Exchange Commission (SEC), the Bureau of the Census, and the Administrative Office of the United States Courts.

Business firms.—A firm is generally defined as a business organization under a single management and may include one or more establishments (i.e., a single physical location at which business is conducted). The terms firm, business, company, and enterprise are used interchangeably throughout this section. A firm doing business in more than one industry is classified by industry according to the major activity of the firm as a whole. The industrial classification is based on the *Standard Industrial Classification (SIC) Manual* (see text, page 402).

The IRS concept of a business firm relates primarily to the legal entity used for tax reporting purposes. The IRS *Statistics of Income* reports present data, based on a sample of tax returns before audit, separately for sole proprietorships, partnerships, and active corporations. A *sole proprietorship* is an unincorporated business owned by one person. Sole proprietorships include the entire range of unincorporated, one-owner businesses, farms, and professional practices, from large enterprises with many employees and hired managers to the part-time operations in which the owner is the only person involved. A *partnership* is an unincorporated business owned by two or more persons, each of whom has a financial interest in the business. The "persons" could be individuals, estates, trusts, or corporations. A *corporation* is a business that is legally incorporated under State laws. The IRS recognizes many types of businesses as corporations, including joint-stock companies; mutual and other insurance companies; and unincorporated associations such as business trusts, mutual savings and loan associations, certain partnerships, mutual savings banks, and cooperative banks. While many corporations file consolidated tax returns, most corporate tax returns represent individual corporations, some of which are affiliated through common ownership or control with other corporations filing separate returns.

Assets and liabilities.—In its annual report, *Statistics of Income, Corporation Income Tax Returns*, the IRS presents balance sheet and income estimates for all active U.S. corporations. The Bureau of the Census issues two current reports, the *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*, which presents quarterly income account and balance sheet data for manufacturing, mining, and trade industries, and *Working Capital of U.S. Nonfinancial Corporations*, which presents data on components of current assets and liabilities of all nonfinancial U.S. corporations. Both of these reports has been prepared by the Federal Trade Commission until responsibilities were transferred to Census beginning with the 4th quarter 1982 report.

One of the most comprehensive measures of the investment position of the business sector (and the only measure adjusted to current replacement cost) is the BEA capital stock series. See *Fixed Reproducible Tangible Wealth in the United States, 1925-79*, and periodic updates in the *Survey of Current Business*.

Income, profits, dividends, and taxes.—Several agencies, among them IRS and BEA, compile corporate income account data. These data, however, are not comparable because of differing methods of compilation. A reconciliation of the two can be found in table 8.12 of *National Income and Product Accounts of the United States, 1929-76*, and *Survey of Current Business* (normally the July issue), published by BEA. The IRS publishes financial data for all business enterprises. These data appear in *Statistics of Income—Partnership Returns, Sole Proprietorship Returns, and Corpo-*

ration Income Tax Returns. Supplemental reports published periodically present data on international income and taxes reported by U.S. corporations.

The corporate data issued by BEA are a part of its national income and product accounts (see text, p. 445) and are defined as required for purposes of national income estimation. The primary sources for BEA estimates of profits, taxes, dividends, and undistributed profits are the original corporate tax returns submitted to IRS. Various adjustments of IRS data are required by the national income treatment—adjustments, particularly with respect to profits which would be disclosed if all tax returns were audited; depletion; capital gain or loss; treatment of bad debts; measurement of income received from abroad; and intercorporate dividends to make the figures comparable with other entries in the national income accounts. For a discussion of two types of adjustments (inventory valuation and capital consumption), see text, page 445. The BEA's corporate profits data also include net earnings of Federal Reserve banks, credit unions, private noninsured pension funds, and several quasi-government credit agencies not included in IRS data.

Sources and uses of corporate funds.—These data (table 924) show capital requirements of corporations and the manner in which they are financed. Sources of funds should be equal to their uses. Certain discrepancies, however, interfere with this equality due to omission of (1) money accruing to corporations from an excess of sales over purchases of used plant and equipment, (2) transactions in securities held as permanent investments except public offerings, and (3) net purchases of land. Also, the balance sheet data upon which many of the financial flow estimates are based are not fully comparable with the tax-return based estimates of internal sources, or the establishment series underlying the figures on inventory change.

Plant and equipment expenditures.—Estimates of actual and planned expenditures for new plant and equipment in the United States by most private, nonagricultural business firms are based on quarterly sample surveys conducted by the Bureau of Economic Analysis.

For quarterly data, see current issues of the *Survey of Current Business*. For discussion of coverage, concepts, and methodology, see October 1980 issue of the *Survey*; for methodology used to derive the constant-dollar estimates, see the September 1981 issue of the *Survey*.

Sales and inventories.—Sales are estimated aggregate values, and inventories are book values at the end of the period. Sales signifies sales or shipments for retail and wholesale trade and billings or shipments for manufacturing. Trade inventories are valued at cost of merchandise on hand, while manufacturers' inventories are valued at approximate current costs or at book values, as reported by the manufacturer. Inventories (see table 920) are based on data from censuses (conducted every five years, for years ending in "2" and "7") and annual surveys. Monthly data for manufacturing appear in the Bureau of the Census Current Industrial Reports, *Manufacturers' Shipments, Inventories, and Orders*, series M3-1; for data on retail and wholesale trade, see Section 30.

Sales, assets, net income, stockholder's equity, and total returns to investors.—Sales include service and rental revenues but exclude dividends, interest, and other non-operating revenues. All companies on the list must have derived more than 50 percent of their sales from manufacturing and/or mining. Sales of subsidiaries are included when they are consolidated. Assets are those shown at the company's year-end. Net income is shown after taxes and after extraordinary credits or charges when any are shown on the income statement. Stockholder's equity is the sum of capital stock, surplus and retained earnings at the company's year-end. Redeemable preferred stock is excluded when its redemption is either mandatory or outside the control of the company, except in the case of cooperatives. Total returns to investors include both price appreciation and dividend yield. Returns are adjusted for stock splits, stock dividends, recapitalizations, and corporate reorganizations as they occur. For further discussion, see Time, Inc., New York, N.Y., *The Fortune Directory*, May and June issues.

Economic censuses.—The economic censuses constitute comprehensive and periodic canvasses of the Nation's industrial and business activities. The first economic census of the United States was conducted as part of the 1810 decennial census, when inquiries on manufacturing were included with the census of population. Minerals data were collected in 1840. The first censuses of construction and business were taken for 1929. An integrated economic census program was begun for 1954. In that year, the censuses covered the retail and wholesale trades, selected service industries, manufactures, and mineral industries. The economic censuses are taken at 5-year intervals covering years ending in "2" and "7".

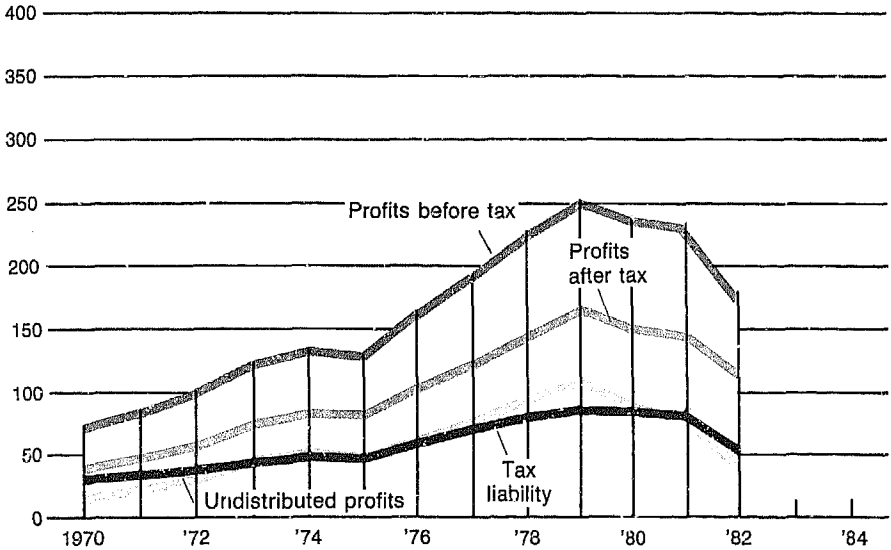
Statistical reliability.—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

Figure 18.1

Corporate Profits: 1970 to 1982

Billions of dollars

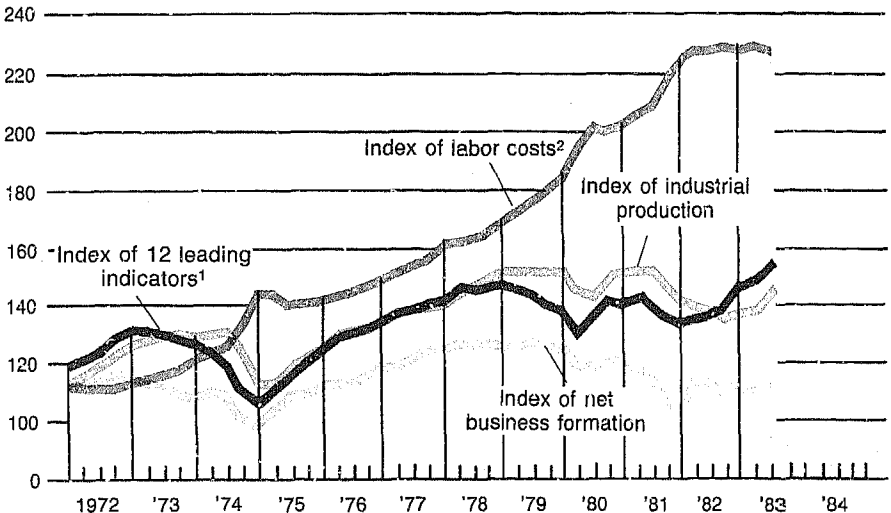


Source: Chart prepared by U.S. Bureau of the Census. For data, see table 925.

Figure 18.2

Cyclical Indicators — Selected Indexes: 1972 to 1983

Index (1967 = 100)

¹ Composite. ² Labor cost per unit of output.

Source: Chart prepared by U.S. Bureau of the Census. For data, see table 917.

NO. 887. NUMBER OF RETURNS, RECEIPTS, AND NET INCOME, BY TYPE OF BUSINESS: 1960 TO 1980

[Figures are estimates based on samples; see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series V 1-12. For further information regarding corporations, see tables 907-909]

ITEM	Unit	1960	1965	1970	1975	1976	1977	1978	1979	1980
Number.....	1,000.....	11,172	11,415	12,001	13,979	14,536	14,741	15,629	16,187	16,793
Receipts ¹	Bil. dol.....	1,095	1,469	2,082	3,685	4,170	4,699	5,377	6,345	7,159
Net income (less deficit) ²	Bil. dol.....	73	111	109	196	245	283	320	361	302
Proprietorships, number ³	1,000.....	9,090	9,078	9,400	10,882	11,358	11,346	12,018	12,330	12,702
Business receipts ⁴	Bil. dol.....	171	199	238	339	375	394	443	488	506
Net income (less deficit) ²	Bil. dol.....	21	28	33	45	50	51	59	61	55
Partnerships, number.....	1,000.....	941	914	936	1,073	1,096	1,153	1,234	1,300	1,380
Total receipts ⁴	Bil. dol.....	74	75	93	147	160	177	219	258	292
Net income (less deficit) ²	Bil. dol.....	8	10	10	8	10	13	14	15	8
Corporations, number.....	1,000.....	1,141	1,424	1,665	2,024	2,082	2,242	2,377	2,557	2,711
Total receipts ⁴	Bil. dol.....	849	1,185	1,751	3,199	3,635	4,128	4,715	5,599	6,361
Net income (less deficit) ²	Bil. dol.....	44	74	66	143	185	219	247	285	239

¹ See footnote 1, table 890. ² See footnote 2, table 890. ³ Individually owned businesses and farms. ⁴ Total taxable receipts before deduction of cost of goods sold, cost of operations, and net loss from sales of property other than capital assets. ⁵ Beginning 1965, includes constructive taxable income from related foreign corporations.

NO. 888. NUMBER OF RETURNS AND BUSINESS RECEIPTS, BY SIZE OF RECEIPTS AND TYPE OF BUSINESS: 1970 TO 1980

[See headline, table 890, and *Historical Statistics, Colonial Times to 1970*, series V 1-12. For further information regarding corporations, see tables 907-909]

SIZE—CLASS OF RECEIPTS	1970		1975		1980							
	Re- turns (1,000)	Re- ceipts (bil. dol.)	Re- turns (1,000)	Re- ceipts (bil. dol.)	Returns (1,000)				Receipts (bil. dol.)			
					Total	Pro- pri- etor- ships	Part- ner- ships ¹	Cor- por- ations ¹	Total	Pro- pri- etor- ships	Part- ner- ships ¹	Corpor- ations ¹
Total.....	12,001	2,036	13,979	3,447	16,793	12,702	1,380	2,711	6,523.4	505.9	286.0	5,731.6
Under \$25,000 ²	8,200	51	9,107	55	10,290	9,095	638	557	64.7	57.3	4.6	2.8
\$25,000-\$49,999.....	1,302	46	1,519	53	1,811	1,421	182	208	63.6	50.8	6.6	6.2
\$50,000-\$99,999.....	1,000	71	1,247	86	1,589	1,082	184	323	110.6	76.4	13.2	21.0
\$100,000-\$499,999.....	1,135	239	1,575	330	2,202	986	291	925	473.6	193.9	64.3	215.4
\$500,000-\$999,999.....	181	126	249	169	412	84	48	280	282.2	56.9	33.2	192.1
\$1,000,000 or more.....	182	1,503	284	2,754	488	33	37	418	5,528.6	70.5	164.0	5,294.1
PERCENT DISTRIBUTION												
Under \$25,000 ²	68.3	2.5	65.1	1.6	61.3	71.8	46.2	20.5	1.0	11.3	1.6	(z)
\$25,000-\$49,999.....	10.8	2.3	10.9	1.5	10.6	11.2	13.2	7.7	1.0	10.1	2.3	.1
\$50,000-\$99,999.....	8.3	3.5	8.9	2.5	9.5	8.5	13.3	11.9	1.7	15.0	4.6	.4
\$100,000-\$499,999.....	9.5	11.7	11.3	9.6	13.1	7.8	21.1	34.1	7.3	38.3	22.5	3.8
\$500,000-\$999,999.....	1.5	6.2	1.8	4.9	2.5	7	3.5	10.3	4.3	11.3	11.6	3.4
\$1,000,000 or more.....	1.5	73.8	2.0	79.9	2.9	.3	2.7	15.4	84.8	13.8	57.4	92.4

Z Less than .05 percent. ¹ Active firms only. ² Includes firms with no receipts.

Source of tables 887 and 888: U.S. Internal Revenue Service, *Statistics of Income, Business Income Tax Returns*, annual through 1976; *Statistics of Income, Sole Proprietorship Returns*, annual; *Statistics of Income, Partnership Returns*, annual; and *Statistics of Income, Corporation Income Tax Returns*, annual.

NO. 889. FEDERAL GOVERNMENT LOANS TO ALL SMALL BUSINESSES: 1970 TO 1982

[For years ending June 30 except, beginning 1977 ending Sept. 30. A small business must be independently owned and operated, must not be dominant in its particular industry, and must meet standards set by the Small Business Administration as to its annual receipts or number of employees]

LOANS APPROVED	Unit	1970- 1982, avg.	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982
Loans, all businesses.....	1,000.....	26.8	15.1	27.5	22.3	26.1	31.8	31.7	30.2	31.7	28.7	15.4
Minority-operated businesses.....	1,000.....	5.9	6.3	6.9	5.4	5.5	6.2	6.1	5.5	6.0	5.2	2.5
Percent of all businesses.....	Percent.....	22	41	25	24	21	19	19	18	19	18	16
Value of total loans.....	Mil. dol.....	2,532	710	1,948	1,594	2,071	3,049	3,314	3,407	3,858	3,668	2,038
Loans to minority-operated business.....	Mil. dol.....	238	160	289	229	262	352	402	428	470	454	238
Percent of all loans.....	Percent.....	13	23	15	14	13	12	12	13	12	12	12

Source: U.S. Small Business Administration, unpublished data.

NO. 890. NUMBER OF RETURNS, RECEIPTS, AND NET INCOME, BY INDUSTRY AND TYPE OF BUSINESS: 1980

[Figures are estimates based on sample of unaudited tax returns; see Appendix III. Due to minor variations in estimating techniques, totals differ slightly from those shown in other IRS tables in this section. For further information regarding corporations, see tables 907-909. See *Historical Statistics, Colonial Times to 1970*, series V 42-53, for number of active corporations. Minus sign (-) indicates net loss]

INDUSTRY	NUMBER OF RETURNS (1,000)			BUSINESS RECEIPTS ¹ (bil. dol.)			NET INCOME (less deficit) ² (bil. dol.)		
	Proprietor- ships	Active partner- ships	Active corpora- tions	Proprietor- ships	Active partner- ships	Active corpora- tions	Proprietor- ships	Active partner- ships	Active corpora- tions
Total ³	12,702	1,380	2,711	505.9	4 286.0	4 5,731.6	55.4	8.2	239.0
Agriculture, forestry, and fishing.....	3,279	126	81	101.1	21.6	48.9	1.3	.5	.7
Mining.....	120	35	26	8.8	13.2	167.4	.3	-4.2	7.8
Construction.....	1,073	67	272	47.8	18.4	283.4	7.5	1.6	5.3
Manufacturing.....	296	30	243	14.8	15.3	2,301.1	1.7	-.5	125.7
Transportation, public utilities ⁵	439	20	111	20.0	5.9	507.4	2.0	.2	20.0
Wholesale and retail trade ³	2,527	200	800	202.3	65.8	1,919.3	9.4	2.5	38.3
Wholesale.....	330	32	281	42.7	28.4	1,104.4	3.1	.9	26.7
Retail.....	2,086	168	515	153.8	37.3	813.0	5.7	1.6	11.5
Finance, insurance, real estate ⁶	1,049	637	493	21.5	87.1	697.5	6.6	-4.2	33.1
Services.....	3,843	263	671	88.0	58.6	266.1	26.4	12.4	8.2

¹ Receipts from sales and services less allowances, rebates, and returns; excludes capital gains or losses, and investment income not associated with the taxpayer's business. ² Net income (less deficit) is defined differently by legal form of organization, basically as follows: (a) Proprietorships: Total taxable receipts less total deductions, including cost of sales and operations; investment and other income are excluded; (b) Partnerships: Total taxable receipts less total deductions, including cost of sales and operations; investment and other income, except capital gains, are included; (c) Corporations: Total taxable receipts less total deductions, including cost of sales and operations; investment and other income, such as capital gains and income from foreign corporations considered received for tax purposes only, are included; net profit is before income tax. ³ Includes business not allocable to individual industries. ⁴ Includes only business receipts portion of finance, insurance and real estate industries, therefore industry components exceed the total. ⁵ Includes sanitary services. ⁶ Includes total receipts for the finance, insurance, and real estate industry.

NO. 891. NUMBER OF RETURNS, RECEIPTS, AND NET INCOME, BY INDUSTRY, BY TYPE OF BUSINESS, AND BY SIZE OF BUSINESS RECEIPTS: 1980

[Number in thousands; receipts and net income in millions of dollars. See headnote, table 890. See *Historical Statistics, Colonial Times to 1970*, series V 42-53, for number of active corporations. Minus sign (-) indicates net loss]

INDUSTRY	PROPRIETORSHIPS ¹			ACTIVE PARTNERSHIPS			ACTIVE CORPORATIONS		
	Under \$50,000 ²	\$50,000- \$99,999	\$100,000 or more	Under \$100,000 ²	\$100,000- \$499,999	\$500,000 or more	Under \$500,000	\$500,000- \$999,999	\$1,000,000 or more
All Industrial divisions: ³									
Number.....	10,516	1,082	1,104	1,003	291	85	2,013	280	418
Business receipts ⁵	108.2	76.4	321.3	24,395	64,334	197,238	4 245,476	4 192,076	4 5,294,064
Net income ⁶	16.3	14.5	24.7	-12,759	5,044	15,964	1,268	4,345	233,393
Agriculture, forestry, fishing:									
Number.....	2,802	261	217	81	38	8	66	8	7
Business receipts ⁵	28.5	18.4	54.1	2,401	7,862	11,348	9,075	5,122	34,653
Mining:									
Number.....	99	7	14	27	5	3	17	3	5
Business receipts ⁵.....	.7	.5	7.3	337	1,231	11,633	1,930	2,251	163,216
Construction:									
Number.....	837	122	115	40	22	4	193	35	44
Business receipts ⁵	11.6	8.5	27.7	1,507	4,597	12,303	29,385	24,748	206,255
Manufacturing:									
Number.....	232	25	39	20	7	2	128	36	79
Business receipts ⁵	2.5	1.8	10.6	609	1,665	13,053	20,980	25,817	2,254,260
Transportation, public utilities: ⁷									
Number.....	329	75	35	13	6	1	82	12	17
Business receipts ⁵	5.1	5.2	9.7	434	1,230	4,204	10,468	8,783	488,123
Wholesale and retail trade:									
Number.....	1,803	280	464	111	66	23	478	122	200
Business receipts ⁵	18.3	18.7	165.3	3,757	15,293	46,743	82,476	85,786	1,751,086
Finance, insurance, real estate:									
Number.....	968	50	30	529	82	26	450	16	28
Business receipts ^{5 6}	9.4	3.5	8.7	10,384	18,263	58,486	29,852	11,237	656,371
Services:									
Number.....	3,379	277	166	182	84	18	586	48	37
Business receipts ⁵	31.5	19.6	36.8	4,965	14,194	39,468	74,041	32,731	159,316

¹ Individually owned businesses and farms. ² Includes businesses without receipts. ³ Includes businesses not allocable to individual industries. ⁴ Includes business receipts portion of finance, insurance, and real estate industries, therefore industry components exceed the total. ⁵ See footnote 1, table 890. ⁶ Less loss. See footnote 2, table 890. ⁷ Includes sanitary services. ⁸ For partnerships and corporations, total receipts (which include investment income), rather than business receipts, were used as the size classifier and for the amounts shown.

Source of tables 890 and 891: U.S. Internal Revenue Service, *Statistics of Income, Business Income Tax Returns*, annual through 1976; *Statistics of Income, Sole Proprietorship Returns*, annual; *Statistics of Income, Partnership Returns*, annual; and *Statistics of Income, Corporation Income Tax Returns*, annual.

NO. 892. ESTABLISHMENTS, EMPLOYEES, AND PAYROLL BY INDUSTRY AND EMPLOYMENT-SIZE CLASS: 1981

[Excludes government employees, railroad employees, self-employed persons, etc. See "General Explanation" in source for definitions and statement on reliability of data]

ITEM	Unit	All industries ¹	Agricultural services ²	Mining	Contract construction	Manufacturing	Transportation ³	Wholesale trade	Retail trade	Finance and insurance ⁴	Services
Establishments, total	1,000	4,587	48	33	400	321	172	390	1,238	418	1,333
Under 20 employees.....	1,000	3,972	48	24	362	198	133	330	1,073	371	1,204
20 to 99 employees.....	1,000	510	2	7	34	85	30	55	151	40	105
100 to 249 employees.....	1,000	71	(Z)	1	3	23	6	4	12	5	17
250 or more employees.....	1,000	33	(Z)	1	1	15	2	1	3	2	7
Employees, total	1,000	74,850	303	1,108	4,286	20,428	4,613	5,621	15,040	5,410	17,814
Under 20 employees.....	1,000	19,515	180	136	1,690	1,379	732	1,999	5,968	1,626	5,285
20 to 99 employees.....	1,000	21,232	73	288	1,358	3,859	1,301	2,108	6,156	1,612	4,410
100 to 249 employees.....	1,000	10,940	25	215	495	3,655	937	652	1,717	691	2,553
250 or more employees.....	1,000	23,184	25	469	743	11,535	1,643	502	1,199	1,481	5,566
Payroll	Bil. dol.	1,149	4	27	80	388	97	99	134	66	226
Under 20 employees.....	Bil. dol.	254	2	3	26	22	11	35	51	23	73
20 to 99 employees.....	Bil. dol.	288	1	7	26	61	25	39	53	25	51
100 to 249 employees.....	Bil. dol.	164	(Z)	5	11	60	20	13	16	11	28
250 employees.....	Bil. dol.	446	(Z)	12	18	245	41	12	14	27	74

Z Less than 500 or \$500 million. ¹ Includes nonclassifiable establishments not shown separately. ² Includes forestry and fisheries. ³ Includes other public utilities. ⁴ Includes real estate.

Source: U.S. Bureau of the Census, *County Business Patterns 1981*, CBP-81-1.

NO. 893. WOMEN-OWNED FIRMS—NUMBER AND RECEIPTS, BY INDUSTRY: 1977

[A firm is considered to be women-owned if one-half or more of the partners are women; a corporation is classified as women-owned if 50 percent or more of the stock is owned by women. The same majority ownership criteria applies to minority-owned businesses. For coverage detail, see source]

INDUSTRY	FIRMS, 1977 (1,000)			RECEIPTS, 1977 (bil. dol.)		
	All firms ¹	Women-owned		All firms ¹	Women-owned	
		Number of firms	Percent of all firms		Re-ceipts	Percent of all firms
All Industries, total	9,833	702	7.1	533.1	41.5	6.6
Construction.....	1,107	21	1.9	72.6	2.9	4.0
Manufacturing.....	287	19	6.6	38.5	3.6	9.4
Transportation and public utilities.....	419	12	2.9	22.8	1.3	5.7
Wholesale and retail trade.....	2,600	228	8.8	291.4	23.1	8.0
Finance, insurance, real estate.....	1,404	66	4.7	86.6	2.1	3.2
Selected services.....	3,623	316	8.7	120.1	7.1	5.9
Other industries ²	393	40	10.2	21.2	1.2	5.7

¹ Based on data from U.S. Internal Revenue Service, preliminary report, *Statistics of Income, Business Income Tax Returns, 1977* and *Statistics of Income, Corporation Income Tax Returns, 1976*. ² Includes industries not classified.

Source: U.S. Bureau of the Census, *Women-Owned Businesses, 1977*.

NO. 894. MINORITY-OWNED FIRMS—SUMMARY BY INDUSTRY: 1977

[These data were developed from administrative records of government agencies, various published and unpublished sources, a direct mail canvass, and personal contacts with community and government representatives knowledgeable in this area. Caution should be exercised in comparing data presented here with published or unpublished data from other reports of the 1977 economic censuses. Factors affecting comparability of data among censuses are scope of survey, business unit canvassed, and receipt-size limitations. See source for further detail. See also headnote, table 893]

OWNERSHIP AND INDUSTRY	ALL FIRMS		FIRMS WITH PAID EMPLOYEES				FIRMS WITHOUT PAID EMPLOYEES	
	Total (1,000)	Gross receipts (mil. dol.)	Total (1,000)	Employee ¹ (1,000)	Annual payroll (mil. dol.)	Gross receipts (mil. dol.)	Total (1,000)	Gross receipts (mil. dol.)
All Industries²	561	26,382	105	499	3,356	16,996	456	7,386
Black-owned.....	231	8,645	40	164	1,135	6,397	191	2,248
Spanish-origin.....	219	10,417	41	206	1,350	7,140	178	3,277
Construction.....	52	2,361	12	45	396	1,613	40	747
Manufacturing.....	13	1,939	6	60	447	1,842	7	117
Transp. and public utilities.....	37	1,060	4	15	139	556	33	504
Wholesale trade.....	9	2,031	2	14	152	1,788	7	242
Retail trade.....	147	10,629	38	183	929	7,820	110	2,809
Finance and insurance ³	28	1,334	3	24	212	1,043	26	291
Selected services.....	234	6,202	38	151	1,020	4,039	196	2,163

¹ For week including March 12. ² Includes other not shown separately. ³ Includes real estate.

Source: U.S. Bureau of the Census, *1977 Survey of Minority-Owned Business Enterprises*, MB77-1, MB77-2, MB77-3, and MB77-4.

NO. 895. NEW BUSINESS CONCERNS AND BUSINESS FAILURES: 1970 TO 1982

[See also *Historical Statistics, Colonial Times to 1970*, series V 21-24]

FORMATIONS AND FAILURES	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Business formations:													
Index, net formations ¹ (1967=100).....	106.4	108.5	115.9	114.9	109.2	107.0	115.6	123.2	128.2	128.3	122.4	118.6	113.0
New incorporations (1,000).....	264	288	317	329	319	326	376	438	478	525	534	582	(NA)
Failures, number ² (1,000).....	10.7	10.3	9.6	9.3	9.9	11.4	9.6	7.9	6.6	7.6	11.7	16.8	(NA)
Rate per 10,000 concerns.....	44	42	38	36	38	43	35	28	24	28	42	61	(NA)

NA Not available. ¹ Source: U.S. Bureau of Economic Analysis. ² See footnote 2, table 896.Source: Except as noted, Dun & Bradstreet, New York, N.Y., *Monthly New Business Incorporation Report*.

NO. 896. INDUSTRIAL AND COMMERCIAL FAILURES—NUMBER AND LIABILITIES: 1946 TO 1981

[Excludes Hawaii prior to 1975, Alaska prior to 1976. Excludes all railroad failures. Excludes real estate and financial companies. See also *Historical Statistics, Colonial Times to 1970*, series V 20-30]

YEARLY AVERAGE OR YEAR	Total concerns in business ¹ (1,000)	FAILURES ²				YEAR	Total concerns in business ¹ (1,000)	FAILURES ²			
		Number	Rate per 10,000 concerns	Current liabilities ³ (mil. dol.)	Average liability (\$1,000)			Number	Rate per 10,000 concerns	Current liabilities ³ (mil. dol.)	Average liability (\$1,000)
1946-1950.....	2,493	5,652	21	213	45	1970.....	2,442	10,748	44	1,888	176
1951-1955.....	2,635	9,317	35	370	39	1971.....	2,466	10,326	42	1,917	186
1956-1960.....	2,674	14,177	53	708	50	1972.....	2,480	9,566	36	2,000	209
1961-1965.....	2,565	14,849	57	1,261	86	1973.....	2,567	9,345	36	2,299	246
1966-1970.....	2,481	10,993	44	1,324	121	1974.....	2,591	9,915	38	3,053	308
1971-1975.....	2,559	10,117	40	2,730	270	1975.....	2,679	11,432	43	4,380	383
1976-1980.....	2,770	8,694	31	3,213	371	1976.....	2,782	9,628	35	3,011	313
1981.....	2,527	13,514	53	1,322	98	1977.....	2,793	7,919	28	3,095	391
1986.....	2,520	13,061	52	1,386	106	1978.....	2,786	6,619	24	2,656	401
1987.....	2,519	12,364	49	1,265	102	1979.....	2,708	7,564	28	2,667	353
1988.....	2,481	9,636	39	941	98	1980.....	2,780	11,742	42	4,635	395
1989.....	2,444	9,154	37	1,142	125	1981.....	2,745	16,794	61	6,955	414

¹ Data represent number of names listed in July issue of *Dun & Bradstreet Reference Book*. ² Includes concerns discontinued following assignment, voluntary or involuntary petition in bankruptcy, attachment, execution, foreclosure, etc.; voluntary withdrawals from business with known loss to creditors; also enterprises involved in court action, such as receivership and reorganization or arrangement which may or may not lead to discontinuance; and businesses making voluntary compromise with creditors out of court. ³ Liabilities exclude long-term publicly held obligations; offsetting assets are not taken into account.

NO. 897. INDUSTRIAL AND COMMERCIAL FAILURES—NUMBER AND LIABILITIES, BY STATES: 1980 AND 1981

STATE	NUMBER		CURRENT LIABILITIES ¹ (mil. dol.)		STATE	NUMBER		CURRENT LIABILITIES ¹ (mil. dol.)		STATE	NUMBER		CURRENT LIABILITIES ¹ (mil. dol.)	
	1980	1981	1980	1981		1980	1981	1980	1981		1980	1981	1980	1981
U.S.....	11,742	16,794	4,635.1	6,955.2	W.N.C.—					W.S.C.....	1,378	1,599	613.6	810.6
N.E.....	464	553	217.0	255.4	Con.....					Ark.....	93	138	43.6	57.0
Maine.....	62	77	23.7	16.5	Mo.....	112	176	39.0	36.8	Cal.....	133	205	77.2	71.3
N.H.....	15	11	1.5	3.7	N. Dak.....	61	51	12.6	16.1	Okla.....	254	216	83.7	110.9
N.J.....	12	25	1.7	8.4	S. Dak.....	89	67	19.7	24.1	Tex.....	898	1,040	409.1	571.4
Mass.....	235	226	145.1	158.3	Kans.....	119	133	31.0	47.0					
R.I.....	18	36	10.7	11.9	Neb.....	142	187	24.6	45.1	MI.....	416	757	99.8	233.7
Conn.....	122	178	34.2	56.6	S.A.....	1,127	1,942	350.1	637.1	Mont.....	86	64	28.7	9.8
M.A.....	1,560	2,143	703.9	2,285.7	Del.....	17	46	5.0	9.1	Idaho.....	58	59	12.6	24.1
N.Y.....	593	823	362.3	1,374.2	Md.....	127	177	20.5	50.7	Wyo.....	2	2	2	1.1
N.J.....	430	521	182.7	372.6	D.C.....	—	—	—	—	Colo.....	133	224	36.8	45.9
Pa.....	557	799	158.9	538.9	Va.....	234	378	55.6	107.8	N.Mex.....	53	80	9.2	12.9
E.N.C.....	2,091	2,825	1,279.6	749.3	W. Va.....	36	136	45.1	67.5	Ariz.....	16	91	1.9	24.2
Ohio.....	432	680	91.2	138.5	N.C.....	194	305	51.2	71.8	Utah.....	28	155	4.6	85.2
Ind.....	211	219	58.5	57.1	S.C.....	—	41	—	15.5	Nev.....	40	82	8.0	30.3
Ill.....	653	726	175.9	198.7	Ga.....	237	283	104.2	94.9					
Mich.....	604	867	904.6	251.8	Fla.....	282	550	66.4	153.1	Pac.....	2,962	4,632	808.8	1,229.5
Wis.....	191	353	49.4	103.2	E.S.C.....	841	1,134	234.1	285.9	Wash.....	696	820	125.0	151.3
W.N.C.....	883	1,209	328.2	488.0	Ky.....	153	223	34.6	54.8	Oreg.....	255	820	127.5	146.5
Minn.....	280	343	176.0	249.8	Tenn.....	449	603	115.0	129.0	Calif.....	1,849	2,849	521.7	897.7
Iowa.....	100	252	25.3	69.1	Ala.....	154	148	61.9	41.9	Hawaii.....	83	89	21.6	23.5
					Miss.....	85	160	22.6	40.2	Alaska.....	79	54	12.9	10.6

- Represents zero. ¹ See headline, and footnotes 2 and 3, table 896.Source of tables 896 and 897: Dun & Bradstreet, New York, N.Y., *The Failure Record Through 1980*, and *Monthly Failure Report*.

No. 898. INDUSTRIAL AND COMMERCIAL FAILURES—NUMBER AND LIABILITIES, BY INDUSTRY AND SIZE OF LIABILITY: 1970 TO 1981

[Excludes Hawaii prior to 1975, Alaska prior to 1978. See footnotes 2 and 3, table 896]

INDUSTRY AND SIZE OF LIABILITY	FAILURES						CURRENT LIABILITIES (mil. dol.)					
	1970	1975	1978	1979	1980	1981	1970	1975	1978	1979	1980	1981
Total.....	10,748	11,432	6,619	7,564	11,742	16,794	1,888	4,380	2,556	2,667	4,635	6,955
Mining and manufacturing.....	2,035	1,645	1,013	1,165	1,599	2,223	818	1,021	879	970	1,885	2,369
Under \$100,000.....	1,069	789	381	424	501	731	43	35	18	21	25	37
\$100,000 and over.....	966	856	632	741	1,098	1,492	775	986	861	949	1,860	2,332
Wholesale trade.....	984	1,089	740	908	1,284	1,709	179	407	346	421	591	1,130
Under \$100,000.....	650	611	313	342	468	590	27	28	15	17	24	31
\$100,000 and over.....	334	478	427	566	816	1,119	152	379	331	404	567	1,099
Retail trade.....	4,650	4,799	2,889	3,183	4,910	6,882	361	1,836	777	637	994	1,559
Under \$100,000.....	3,984	3,520	1,916	1,920	2,698	3,739	124	136	86	88	130	190
\$100,000 and over.....	666	1,279	973	1,263	2,212	3,143	236	1,700	692	549	864	1,369
Construction.....	1,887	2,262	1,204	1,378	2,355	3,614	232	641	328	291	752	852
Under \$100,000.....	1,229	1,433	650	718	1,147	1,840	42	58	28	33	56	88
\$100,000 and over.....	458	829	554	660	1,208	1,774	190	583	300	258	696	764
Commercial service.....	1,392	1,637	773	930	1,594	2,366	299	475	326	348	413	1,046
Under \$100,000.....	1,087	1,151	452	526	868	1,333	33	42	18	21	38	60
\$100,000 and over.....	305	486	321	404	726	1,033	265	433	308	327	375	986

Source: Dun & Bradstreet, New York, N.Y., *The Failure Record Through 1980*, and *Monthly Failure Report*.

No. 899. BANKRUPTCY ESTATES FILED AND PENDING: 1905 TO 1982

[In thousands. For years ending June 30, except 1905 ending Sept. 30. Covers all U.S. bankruptcy courts. Bankruptcy estates "Filed" means the commencement of a proceeding through the presentation of a petition to the clerk of the bankruptcy court; "Pending" is a proceeding in which the administration has not been completed]

YEAR	Filed	Pending	YEAR	Filed	Pending	YEAR	Filed	Pending	YEAR	Filed	Pending
1905.....	17	28	1945.....	13	21	1965.....	180	182	1973.....	173	109
1910.....	18	28	1950.....	33	38	1966.....	192	189	1974.....	190	201
1915.....	28	44	1955.....	59	56	1967.....	208	185	1975.....	254	282
1920.....	14	30	1960.....	110	95	1968.....	198	184	1976.....	247	271
1925.....	46	60	1961.....	147	124	1969.....	135	179	1977.....	214	254
1930.....	63	61	1962.....	148	134	1970.....	194	191	1978.....	203	240
1935.....	69	65	1963.....	155	148	1971.....	201	201	1979.....	226	258
1940.....	53	55	1964.....	172	157	1972.....	183	197	1980.....	361	421
									1981.....	519	618
									1982.....	528	733

No. 900. BANKRUPTCY ESTATES FILED, BY TYPE OF BANKRUPTCY AND CHAPTER OF THE BANKRUPTCY ACT/CODE: 1973 TO 1982

[For years ended June 30]

ITEM		1973	1974	1975	1976	1977	1978	1979	1980 ¹	1981	1982
Total.....		173,197	189,513	254,484	246,549	214,399	202,951	226,476	360,957	519,063	527,811
Business.....		17,490	20,746	30,130	35,201	32,189	30,528	29,500	46,071	66,333	77,725
Non-business.....		155,707	168,767	224,354	211,348	182,210	172,423	196,976	314,886	452,730	450,086
Voluntary.....		172,200	188,493	253,198	245,383	213,257	201,944	225,549	359,768	517,729	526,276
Involuntary.....		997	1,020	1,286	1,166	1,142	1,007	927	1,184	1,333	1,535
Act											
Code											
Chapters 1-.....											
VII.....	Chapter 7 ³	145,914	157,971	209,330	209,067	181,194	168,771	183,259	275,850	381,995	367,144
Chapter IX.....	Chapter 9 ⁴	-	2	-	2	1	2	1	-	1	4
Chapter XI.....	(X)	101	163	189	141	96	75	63	17	3	2
Chapter XII.....	Chapter 11 ⁵	1,458	2,171	3,506	3,235	3,046	3,266	3,042	5,441	3,781	16,216
Chapter XIII.....	(X)	92	172	280	525	640	650	669	212	1	1
Section 77 ⁶	Chapter 13 ⁶	25,632	29,019	41,178	33,579	29,422	30,185	39,442	79,432	128,281	144,444
(X).....	(X)	-	15	1	-	-	2	-	-	-	-
(X).....	Section 304 ⁸	(X)	(X)	(X)	(X)	(X)	(X)	(X)	5	1	-

- Represents zero. X Not applicable. ¹ For the first three months of 1980 the judiciary operated under the Bankruptcy Act and for the last nine months under both the Bankruptcy Act and the new bankruptcy code established by the Bankruptcy Reform Act of 1978. ² Includes five Section 304 cases filed under the Reform Act in 1980 and 1 in 1981 which are not included in the subcategories of voluntary/involuntary. ³ Chapter 7, liquidation of non-exempt assets of businesses or individuals. ⁴ Chapter 9, adjustment of debts of a municipality. ⁵ Chapter 11, individual or business reorganization. ⁶ Chapter 13, adjustment of debts of an individual with regular income. ⁷ Section 77, railroad reorganization, no longer applies. Subchapter IV of Chapter 11 now provides for railroad reorganization. ⁸ 11 U.S.C., Section 304, cases ancillary to foreign proceedings.

Source of tables 899 and 900: Administrative Office of the U.S. Courts, *Annual Report of the Director*.

No. 901. GROSS DOMESTIC PRODUCT (GDP) OF CORPORATE BUSINESS: 1965 TO 1982

[In billions of dollars. For explanation of GDP, see text, p. 445. Excludes gross product originating in the rest of the world. Minus sign (–) indicates negative value. See *Historical Statistics, Colonial Times to 1970*, series V 141-166, for single-year figures prior to revisions issued in 1981]

ITEM	1965	1970	1975	1976	1977	1978	1979	1980	1981	1982
Gross domestic product (GDP)	414	597	938	1,054	1,193	1,355	1,505	1,638	1,855	1,897
Net domestic product	380	543	838	944	1,071	1,217	1,348	1,459	1,652	1,675
Indirect business tax ¹	44	66	102	110	118	128	137	156	185	188
Domestic income	336	477	736	834	953	1,089	1,211	1,303	1,467	1,487
Compensation of employees	260	401	617	694	783	895	1,015	1,112	1,230	1,282
Corporate profits with IVA and CCAdj ²	76	65	98	124	152	173	164	146	189	143
Profits before tax	73	69	119	152	180	209	222	205	203	152
Profits tax liability	31	34	51	64	73	83	88	85	83	59
Profits after tax	42	35	69	88	107	126	134	120	120	93
Dividends	16	19	25	29	30	36	38	40	50	54
Undistributed profits	26	16	44	59	76	90	97	80	70	39
IVA ²	–1	–7	–12	–15	–16	–24	–43	–43	–24	–8
CCAdj ²	4	3	–10	–14	–11	–13	–15	–16	–11	–1
Net interest	1	11	21	16	18	22	32	46	68	62
Capital consumption allowances ³	33	54	99	110	121	138	158	179	203	222
GDP of nonfinancial corporate business	394	564	890	1,001	1,128	1,276	1,417	1,541	1,740	1,777
Net domestic product	361	511	795	897	1,013	1,145	1,267	1,371	1,548	1,567
Indirect business tax ¹	41	63	97	105	113	122	131	148	176	179
Domestic income	320	448	698	791	900	1,023	1,137	1,223	1,371	1,388
Compensation of employees	246	378	581	654	739	844	958	1,046	1,156	1,199
Corporate profits with IVA and CCAdj ²	68	53	86	107	129	142	135	120	150	124
Profits before tax	65	57	107	135	156	178	192	178	183	132
Profits after tax	38	30	66	82	97	112	123	111	117	90
IVA ²	–1	–7	–12	–15	–16	–24	–43	–43	–24	–8
CCAdj ²	4	2	–10	–13	–11	–12	–14	–15	–9	–1
Net interest	6	17	31	30	32	37	44	56	65	65
Capital consumption allowances ³	33	52	95	105	116	131	150	170	192	210
CONSTANT (1972) DOLLARS										
GDP of nonfinancial corporate business	495	600	694	746	796	846	876	860	887	858
Net domestic product	452	543	622	671	718	765	790	770	794	761
Indirect business tax ¹	54	67	79	83	87	91	93	93	95	94
Domestic income	398	475	543	588	631	674	698	677	699	667

¹ Plus business transfer payments less subsidies.

² Inventory valuation and capital consumption adjustments.

³ With capital consumption adjustment.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-76*, and *Survey of Current Business*, July 1983.

No. 902. RATES OF RETURN ON CURRENT-DOLLAR NET REPRODUCIBLE TANGIBLE NONFINANCIAL CORPORATE CAPITAL STOCK USING VARIOUS PROFIT MEASURES: 1960 TO 1982

[In percent. The profits concept emphasized in the national income and product account (NIPA) is profits from current production. The NIPA measure excludes capital gains and losses from income and resembles Pigou's concept in that NIPA profits are the excess of income over expenses beyond that necessary to maintain tangible capital intact. See A.C. Pigou, "Maintaining Capital Intact," *Economica* (August 1941): 271-75. See source pp. 30-42 for details]

YEAR	NIPA profits	NIPA profits plus net interest	After-tax NIPA profits	After-tax NIPA profits plus net interest	Reported profits ¹	Reported profits plus net interest	After-tax reported profits	After-tax reported profits plus net interest
1960	10.2	11.1	4.9	5.9	10.8	11.8	5.5	6.5
1965	14.8	16.1	8.8	10.2	14.2	15.6	8.1	9.6
1970	7.1	9.5	3.5	5.8	7.7	10.0	3.8	6.3
1971	7.8	10.1	4.1	6.3	8.2	10.5	4.2	6.7
1972	8.5	10.7	4.6	6.8	8.9	11.1	4.9	7.2
1973	8.2	10.6	4.0	6.4	10.0	12.4	5.5	8.2
1974	5.5	8.1	1.9	4.4	9.1	11.7	5.2	8.1
1975	6.5	8.8	3.4	5.7	8.1	10.4	4.6	7.3
1976	7.5	9.6	3.8	5.9	9.4	11.5	5.4	7.8
1977	8.2	10.2	4.4	6.4	9.9	11.9	6.1	8.1
1978	8.0	10.0	4.2	6.3	10.0	12.1	6.3	8.3
1979	6.6	8.8	3.2	5.4	9.4	11.6	6.0	8.2
1980	5.2	7.6	2.3	4.7	7.7	10.1	4.8	7.2
1981	5.9	8.4	3.3	5.8	7.1	9.7	4.6	7.1
1982	4.6	6.9	3.0	5.4	4.8	7.2	3.3	5.7

¹ Represents profits before tax which is equal to NIPA profits less the inventory valuation and capital consumption adjustments, closest to profits as measured on corporation's own books.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, January 1983.

NO. 903. NONFINANCIAL CORPORATE BUSINESS-SECTOR BALANCE SHEET: 1965 to 1982

(In billions of dollars. Represents year-end outstandings. 1982 preliminary)

ITEM	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total assets	825	1,241	1,674	1,946	2,090	2,274	2,523	2,857	3,295	3,696	4,027	4,106
Tangible assets.....	566	871	1,148	1,429	1,532	1,662	1,852	2,093	2,404	2,698	2,972	3,032
Reproducible.....	469	758	1,011	1,267	1,381	1,476	1,648	1,859	2,138	2,405	2,664	2,731
Land.....	97	113	137	163	171	186	206	234	266	294	308	301
Financial assets	259	370	526	517	558	612	672	764	892	999	1,054	1,074
Liquid assets.....	63	69	101	105	125	140	143	153	172	188	206	216
Demand deposits and currency.....	33	44	46	48	54	56	59	63	69	76	75	76
Time deposits.....	9	5	17	20	22	24	29	31	36	40	55	60
Consumer credit.....	15	17	22	22	23	24	26	28	29	30	32	32
Trade credit.....	119	189	267	244	249	268	304	360	432	479	496	490
Miscellaneous assets.....	62	94	137	145	160	179	198	223	258	300	321	336
Total liabilities	349	542	733	743	771	834	928	1,069	1,232	1,354	1,484	1,553
Credit market instruments.....	222	355	461	527	548	590	660	737	836	916	1,019	1,094
Profit taxes payable.....	20	11	16	17	14	22	20	24	24	17	10	(2)
Trade debt.....	98	162	235	174	180	191	213	264	318	352	366	361
Foreign direct investment in U.S.....	9	13	21	25	28	31	35	42	54	66	90	98
Net worth	476	699	942	1,203	1,319	1,440	1,595	1,790	2,064	2,342	2,542	2,553

Z Less than \$500 million.

Source: Board of Governors of the Federal Reserve System, *Balance Sheets For U.S. Economy*.

NO. 904. WORKING CAPITAL OF NONFINANCIAL CORPORATIONS: 1972 to 1982

(In billions of dollars, except ratios. As of December 31. Covers all nonfinancial U.S. corporations)

ITEM	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Current assets	599.3	697.8	734.6	756.3	823.1	900.9	1,028.1	1,200.9	1,281.6	1,374.5	1,430.9
Cash on hand and in banks ¹	59.0	68.3	73.0	80.0	86.8	94.3	103.7	116.1	121.0	126.6	143.7
U.S. Government securities.....	10.6	12.8	11.3	19.6	26.0	18.7	17.8	15.6	17.3	19.2	23.1
Receivables, total ²	248.2	288.5	265.5	272.1	292.4	325.0	381.9	456.8	491.2	528.0	517.0
Inventories.....	225.7	263.9	318.9	314.7	341.4	375.6	428.3	501.7	525.4	560.2	577.5
Other current assets.....	55.8	66.4	65.9	69.9	76.4	87.3	96.3	110.7	126.7	140.5	169.6
Current liabilities	375.6	450.9	451.8	446.9	487.5	546.8	661.9	809.1	877.2	923.2	976.5
Payables.....	282.9	340.3	272.3	261.2	273.2	313.7	375.1	456.3	498.3	520.4	548.7
Other current liabilities.....	92.7	110.7	179.5	185.7	214.2	233.1	286.8	352.8	378.9	402.9	427.8
Net working capital	223.7	246.9	282.8	309.5	335.6	354.1	366.2	391.8	404.4	451.3	454.4
Liquidity ratio ³.....	.394	.323	.392	.379	.398	.366	.329	.300	.302	.310	.344
Current ratio ⁴	1.595	1.548	1.626	1.693	1.688	1.648	1.553	1.484	1.461	1.489	1.465

¹ Includes time certificates of deposits. ² Includes U.S. Government receivables. ³ Cash plus U.S. Government securities plus "other current assets," divided by "current liabilities." ⁴ "Current assets" divided by "current liabilities."Source: Through 1981, U.S. Federal Trade Commission, thereafter, U.S. Bureau of the Census. In Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*.NO. 905. LARGEST MANUFACTURING CORPORATIONS—PERCENT SHARE OF ASSETS HELD:
1955 to 1982

(Prior to 1970, excludes newspapers. Data prior to 1974 not strictly comparable with later years.)

CORPORATION RANK GROUP	1955	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
100 largest.....	44.3	46.4	46.5	48.5	44.7	44.4	45.0	45.4	45.9	45.5	46.1	46.7	46.8	47.7
200 largest.....	53.1	56.3	56.7	60.4	56.9	56.7	57.5	58.0	58.5	58.3	59.0	59.7	60.0	60.8

Source: Through 1981, U.S. Federal Trade Commission, thereafter, U.S. Bureau of the Census, unpublished data.

NO. 906. LARGEST MANUFACTURING COMPANIES—PERCENT SHARE OF TOTAL VALUE ADDED BY
MANUFACTURE: 1947 to 1977["Largest companies" are those which were largest in each of the specified years in terms of value added. For details, see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series P 177-180]

COMPANY RANK	1947 Census	1954 Census	1956 Census	1962 ASM	1963 Census	1966 ASM	1967 Census	1970 ASM	1972 Census	1976 ASM	1977 Census
Largest 50 companies.....	17	23	23	24	25	25	25	24	25	24	24
Largest 100 companies.....	23	30	30	32	33	33	33	33	33	34	33
Largest 150 companies.....	27	34	35	36	37	38	38	38	39	40	39
Largest 200 companies.....	30	37	38	40	41	42	42	43	43	44	44

Source: U.S. Bureau of the Census, *Census of Manufactures and Annual Survey of Manufactures (ASM)*.

NO. 907. ACTIVE CORPORATION INCOME TAX RETURNS—SELECTED ITEMS: 1965 TO 1980

[In billions of dollars, except number of returns. Federal returns and active corporations only. See headnote, table 532. See also *Historical Statistics, Colonial Times to 1970*, series V 129-136]

ITEM	1965	1970	1974	1975	1976	1977	1978	1979	1980
Number of returns (1,000)	1,424	1,666	1,966	2,024	2,082	2,242	2,377	2,557	2,711
Returns with—									
Assets, end of year (1,000)	1,380	1,619	1,903	1,952	2,017	2,185	2,306	2,467	2,632
Net income (1,000)	915	1,008	1,208	1,226	1,274	1,425	1,524	1,586	1,597
Income tax less credits ¹ (1,000)	(NA)	735	803	733	749	776	854	962	989
Total receipts ²	1,194.6	1,750.8	3,089.7	3,198.6	3,635.5	4,128.3	4,714.6	5,598.7	6,361.3
Business receipts	1,120.4	1,620.9	2,854.8	2,961.7	3,370.4	3,813.9	4,353.7	5,136.1	5,731.6
Interest ³	37.2	71.6	143.0	143.3	158.0	176.7	220.9	269.3	366.9
Receipts not specified	22.0	38.8	55.5	63.1	71.0	92.4	90.6	108.4	184.6
Total deductions ²	1,119.9	1,682.8	2,941.5	3,052.7	3,448.9	3,908.8	4,467.2	5,315.7	6,125.4
Cost of sales and operations	793.0	1,146.3	2,068.1	2,129.9	2,416.6	2,725.0	3,113.4	3,709.7	4,204.9
Interest paid	26.4	62.1	132.9	129.3	135.1	152.9	192.4	261.3	344.6
Deductions not specified	249.9	395.5	605.5	658.9	746.3	867.3	963.6	1,117.4	1,316.5
Receipts less deductions	74.7	67.9	148.2	145.0	186.6	219.5	247.4	283.0	235.9
Net income less deficit	73.9	65.9	146.0	142.6	185.4	219.2	246.9	284.6	239.0
Income tax ⁴	31.7	33.3	68.1	66.1	83.2	95.3	107.9	120.0	105.1
Income tax less credits ¹	27.3	27.9	41.1	39.7	49.8	56.7	64.4	65.9	63.0
Distributions to stockholders ⁵	26.0	32.0	49.3	45.2	54.6	61.5	70.3	86.6	97.4

NA Not available. ¹ Credits includes foreign tax, investment, work incentive (WIN) (beginning 1974), U.S. possessions tax (beginning 1976), jobs (beginning 1977) nonconventional source fuel, and alcohol fuel credits (beginning 1980). ² Includes items not shown separately. ³ Includes interest on Government obligations and other interest. ⁴ Income tax is before deductions for credit; see footnote 1. Includes tax from recomputing prior-year investment credit; 1970, includes tax surcharge. Beginning 1970, includes additional tax for tax preferences; beginning 1974, includes tax from recomputing prior-year work incentive (WIN) credit. ⁵ Other than own stock.

Source: U.S. Internal Revenue Service, *Statistics of Income, Corporation Income Tax Returns*, annual.

NO. 908. ACTIVE CORPORATIONS—INCOME TAX RETURNS, BY ASSET SIZE: 1965 TO 1980

[Figures are estimates based on samples of active corporations filing income tax returns; see Appendix III. See *Historical Statistics, Colonial Times to 1970*, series V 42, for total active corporations]

ASSET SIZE-CLASS	NUMBER OF RETURNS (1,000)						TOTAL ASSETS (bil. dol.)					
	1965	1970	1975	1978	1979	1980	1965	1970	1975	1978	1979	1980
Total	1,424.0	1,665.5	2,023.6	2,376.8	2,556.8	2,710.5	1,724	2,635	4,287	6,014	6,835	7,617
Under \$100,000 ¹	846.2	981.0	1,882.3	{ 1,320.9	1,403.3	1,514.6	28	32	255	{ 43	46	49
\$100,000-\$1 mil	490.7	599.1		{ 862.2	940.3	968.9	143	178		{ 274	301	311
\$1 mil.-\$10 mil	73.5	87.0	116.4	162.3	180.5	191.8	206	240	310	425	468	501
\$10 mil.-\$25 mil	7.4	9.8	12.2	15.2	15.3	16.6	115	153	193	241	241	262
\$25 mil.-\$50 mil	2.9	3.9	5.6	6.9	7.3	7.8	99	135	195	242	258	277
\$50 mil.-\$100 mil	1.5	2.1	3.1	4.1	4.4	4.8	104	145	213	288	311	344
\$100 mil.-\$250 mil	1.1	1.4	2.1	2.7	3.0	3.2	165	222	331	423	462	514
\$250 mil. and over .....	.8	1.2	1.9	2.5	2.7	2.9	662	1,530	2,790	4,078	4,748	5,358

¹ Includes returns with zero assets.

Source: U.S. Internal Revenue Service, *Statistics of Income, Corporation Income Tax Returns*, annual.

NO. 909. ACTIVE CORPORATIONS—ASSETS AND LIABILITIES: 1965 TO 1980

[In billions of dollars. See headnote, table 532. For number of income tax returns, see table 907. See also *Historical Statistics, Colonial Times to 1970*, series V 108-127]

ASSETS AND LIABILITIES	1965	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Assets ¹	1,724	2,635	2,889	3,257	3,649	4,016	4,287	4,721	5,326	6,014	6,835	7,617
Cash	117	177	196	228	259	281	290	315	362	413	462	529
Notes and accounts receivable ²	392	595	650	762	891	998	1,021	1,137	1,304	1,551	1,771	1,935
Inventories	126	190	199	224	263	312	318	351	396	443	503	535
Mortgage and real estate loans	(NA)	328	366	418	463	508	548	599	661	762	841	894
Capital assets ³	395	600	634	685	750	831	892	969	1,076	1,196	1,348	1,512
Liabilities ¹	1,724	2,635	2,889	3,257	3,649	4,016	4,287	4,721	5,326	6,014	6,835	7,617
Notes and accounts payable ⁴	174	320	334	386	461	539	536	579	666	784	933	1,047
Other current liabilities	583	892	1,005	1,163	1,316	1,459	1,577	1,791	2,063	2,336	2,583	2,707
Bonded debt and mortgages ⁵	210	363	403	445	493	542	667	638	694	781	885	987
Surplus and undivided profits ⁶ (net)	375	551	599	666	730	776	843	938	1,064	1,185	1,364	1,527

NA Not available. ¹ Includes assets, or liabilities, not shown separately. ² Less allowance for bad debts. Includes loans and discounts of banks, except mortgage and real estate loans. ³ Less depreciation, amortization, and depletion reserves. Includes land and intangible assets. ⁴ Includes bonds, notes, and mortgages payable with maturity of less than 1 year. ⁵ With maturity of 1 year or more. ⁶ Beginning 1970, reduced by cost of treasury stock.

Source: U.S. Internal Revenue Service, *Statistics of Income, Corporation Income Tax Returns*, annual.

**NO. 910. ACTIVE CORPORATIONS—INCOME TAX RETURNS, BY ASSET SIZE-CLASS, 1979 and 1980
and BY INDUSTRY, 1980**

[In billions of dollars, except as indicated. See headline and footnotes, table 532. See also *Historical Statistics, Colonial Times to 1970*, series V 167-183 and V 193-199]

INDUSTRY AND ITEM	Total	ASSET SIZE-CLASS					
		Under 10 mil. dol. ¹	10-24.9 mil. dol.	25-49.9 mil. dol.	50-99.9 mil. dol.	100-249.9 mil. dol.	250 mil. dol. and over
1979, all industrial divisions:²							
Number of returns	2,556,794	2,524,070	15,279	7,323	4,436	3,006	2,680
Total assets or liabilities	6,835.1	814.6	241.3	258.3	310.8	462.2	4,747.9
Total receipts	5,598.7	1,890.1	264.1	191.0	211.2	299.0	2,743.2
Total deductions ³	5,315.7	1,842.8	252.8	181.8	200.4	283.2	2,554.7
Cost of sales and operations	3,709.7	1,321.3	190.5	127.9	142.5	196.4	1,731.1
Interest and taxes paid	389.0	78.2	13.6	14.1	17.2	24.8	241.1
Depreciation and amortization	139.5	34.9	5.2	3.6	3.9	6.2	85.6
Depletion	7.8	.5	.2	.2	.2	.5	6.2
Net income less deficit ⁴	284.6	47.1	10.9	8.7	10.2	15.3	192.4
Income tax ⁵	120.0	18.1	4.7	3.8	4.0	6.3	83.1
1980, all industrial divisions:²							
Number of returns	2,710,538	2,675,275	16,557	7,783	4,803	3,203	2,877
Total assets or liabilities	7,617.2	862.0	261.5	277.4	344.3	514.1	5,358.0
Total receipts	6,361.3	1,990.5	307.4	214.5	246.4	371.0	3,229.5
Total deductions ³	6,125.4	1,953.0	296.8	205.4	236.0	355.5	3,076.8
Cost of sales and operations	4,204.9	1,364.4	223.4	146.3	167.3	248.7	2,053.5
Interest and taxes paid	507.6	92.1	16.4	17.0	21.6	31.5	328.8
Depreciation and amortization	158.7	39.1	6.1	4.3	4.9	7.5	96.7
Depletion	8.9	.7	.2	.2	.3	.4	7.1
Net income less deficit ⁴	239.0	37.2	10.3	8.4	9.8	14.8	158.4
Income tax ⁵	105.1	17.3	4.8	3.8	4.1	6.4	88.8
Percent distribution:							
Number of returns	100.0	98.7	.6	.3	.2	.1	.1
Total assets or liabilities	100.0	11.3	3.4	3.6	4.5	6.8	70.4
Total receipts	100.0	31.3	4.8	3.4	3.9	5.8	50.8
Total deductions	100.0	31.9	4.8	3.4	3.9	5.8	50.2
Net income less deficit ⁴	100.0	15.6	4.3	3.5	4.1	6.2	66.3
Income tax ⁵	100.0	16.5	4.6	3.6	3.9	6.1	65.5
Agriculture, forestry, and fishing:							
Number of returns	80,883	80,654	166	43	7	9	4
Total assets or liabilities	40.7	32.5	2.4	1.6	.6	1.4	2.3
Total receipts	52.1	38.0	3.4	2.8	1.4	1.3	5.3
Mining:							
Number of returns	25,576	24,752	429	182	84	64	59
Total assets or liabilities	126.9	16.9	6.5	6.3	6.4	10.3	80.6
Total receipts	176.7	20.9	4.8	4.7	5.2	10.7	130.3
Construction:							
Number of returns	272,432	271,184	865	221	103	41	18
Total assets or liabilities	152.9	83.9	13.1	7.6	7.7	8.3	12.3
Total receipts	267.2	196.1	21.6	9.8	8.9	8.5	20.3
Manufacturing:							
Number of returns	242,550	236,034	3,475	1,182	701	532	629
Total assets or liabilities	1,709.5	151.1	54.0	43.4	51.7	92.5	1,316.7
Total receipts	2,404.3	353.9	100.4	71.3	79.2	132.9	1,684.7
Transportation and public utilities:							
Number of returns	111,324	110,074	559	214	114	107	256
Total assets or liabilities	758.4	95.3	8.6	7.7	8.4	17.4	681.0
Total receipts	523.8	73.3	11.9	9.4	10.8	15.1	403.3
Wholesale and retail trade:							
Number of returns	799,628	795,009	2,857	836	461	282	194
Total assets or liabilities	646.9	289.0	43.0	29.0	35.0	51.3	199.5
Total receipts	1,955.5	1,009.8	131.6	83.0	98.9	141.8	490.4
Finance, insurance, real estate:⁶							
Number of returns	493,426	474,156	7,438	4,856	3,188	2,092	1,683
Total assets or liabilities	4,022.2	160.7	121.9	172.8	223.0	320.5	3,023.4
Total receipts	697.5	89.0	20.2	23.6	30.2	46.6	465.9
Services:							
Number of returns	671,338	670,067	755	249	143	76	49
Total assets or liabilities	178.2	91.4	11.8	9.0	11.5	12.4	42.2
Total receipts	279.9	204.1	12.8	9.9	11.8	12.1	29.3

¹ Includes returns of corporations with zero assets. ² Includes data not shown separately. ³ Includes deductions not specified. For deductions detail, see table 907. ⁴ Excludes wholly tax-exempt interest but includes income from related foreign corporations considered received for tax purposes only. ⁵ Income tax is before deductions for foreign tax, U.S. possessions tax, investment, work incentive (WIN) jobs, nonconventional source fuel and alcohol fuel credits. Includes additional tax for tax preferences, taxes from recomputing prior year investment, and work incentive (WIN) credits. ⁶ Includes lessors of real property.

Source: U.S. Internal Revenue Service, *Statistics of Income, Corporation Income Tax Returns*, annual.

**NO. 911. FIXED NONRESIDENTIAL PRIVATE CAPITAL—COST VALUATION IN CURRENT AND
CONSTANT (1972) DOLLARS: 1965 TO 1982**

[In billions of dollars. Stocks as of Dec. 31; depreciation over entire calendar year. Data refer to privately owned assets and are based on the fixed capital formation components of the gross national product. Excludes residential capital and government enterprises; includes nonprofit institutions. Gross stocks allow for retirement; net stocks allow for retirement and depreciation. Estimates are based on straight-line depreciation and 85 percent of service lives given in *Bulletin F*, Internal Revenue Service. For single-year figures prior to revisions issued in 1981 and data in constant (1959) dollars, see *Historical Statistics of the United States, Colonial Times to 1970*, series F 480-527]

ITEM	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982
CURRENT DOLLARS											
All industries: ¹											
Gross stocks	851.6	1,363.6	2,262.1	2,470.6	2,670.8	3,003.9	3,414.8	3,920.1	4,467.4	4,994.1	5,309.3
Equipment	411.5	645.1	1,010.8	1,157.3	1,277.7	1,433.6	1,626.1	1,858.5	2,130.0	2,389.7	2,566.5
Structures	440.1	718.6	1,251.3	1,313.3	1,393.0	1,570.3	1,788.6	2,061.7	2,337.5	2,604.3	2,742.8
Net stocks	487.2	807.3	1,334.7	1,440.8	1,542.8	1,726.8	1,960.3	2,248.2	2,550.4	2,841.7	2,995.2
Equipment	226.7	368.9	576.0	651.4	712.5	797.6	907.3	1,038.8	1,182.9	1,318.8	1,393.0
Structures	260.5	438.4	758.7	789.4	830.3	929.3	1,053.0	1,209.4	1,367.6	1,522.9	1,602.3
Depreciation	43.9	69.8	106.9	126.8	139.0	154.4	175.2	201.6	231.5	262.5	288.8
Equipment	30.0	47.5	70.2	84.8	94.7	106.0	119.7	137.0	155.9	178.1	196.5
Structures	13.9	22.2	36.7	42.0	44.4	48.3	55.5	64.6	74.6	84.4	92.2
Manufacturing:											
Gross stocks	217.2	343.6	529.2	577.3	623.0	703.1	797.5	922.4	1,053.1	1,169.1	1,234.7
Equipment	126.1	198.1	299.4	348.3	386.0	438.7	496.5	577.6	668.5	756.3	809.5
Structures	91.1	145.5	229.7	229.1	237.0	264.4	301.0	344.8	384.6	412.8	425.2
Net stocks	116.4	191.2	292.7	319.3	343.9	387.3	438.2	508.8	579.7	640.4	666.9
Equipment	68.2	112.3	170.4	198.2	219.0	248.8	281.0	326.1	377.7	423.2	443.4
Structures	48.1	78.9	122.3	121.2	124.8	138.5	157.2	180.7	202.1	217.2	223.5
Depreciation	12.0	18.9	26.5	31.6	34.5	38.5	43.2	50.1	58.0	65.6	71.5
Equipment	8.8	14.0	19.0	23.3	26.1	29.5	33.2	38.5	44.6	51.3	56.5
Structures	3.1	4.9	7.5	8.3	8.4	8.9	10.1	11.7	13.3	14.3	14.9
Nonfarm nonmfg:											
Gross stocks	570.4	927.2	1,581.5	1,728.6	1,866.0	2,094.2	2,375.8	2,721.5	3,101.5	3,484.3	3,719.1
Equipment	246.7	394.9	629.9	716.4	787.1	877.4	992.5	1,126.4	1,286.0	1,440.7	1,554.8
Structures	323.7	532.3	951.7	1,012.2	1,078.9	1,216.8	1,383.3	1,595.1	1,815.5	2,043.6	2,164.4
Net stocks	335.0	563.1	954.8	1,026.4	1,093.9	1,219.9	1,382.0	1,579.3	1,791.7	2,009.4	2,132.6
Equipment	136.0	228.3	360.3	401.5	434.9	483.1	549.7	624.6	709.2	792.3	844.8
Structures	198.9	334.7	594.5	624.9	658.9	736.8	832.3	954.7	1,082.5	1,217.1	1,287.8
Depreciation	28.3	45.7	72.8	86.2	94.6	104.7	119.2	136.7	156.7	178.2	197.5
Equipment	18.2	28.4	45.4	54.5	60.6	67.5	76.3	86.9	99.9	111.9	124.2
Structures	10.1	16.2	27.4	31.7	34.0	37.2	42.9	49.8	57.7	66.3	73.3
CONSTANT (1972) DOLLARS											
All industries: ¹											
Gross stocks	1,155.3	1,452.6	1,714.7	1,766.9	1,821.9	1,888.0	1,969.8	2,056.8	2,137.1	2,222.8	2,294.4
Equipment	504.8	665.1	819.2	850.7	885.4	929.4	985.8	1,045.1	1,096.6	1,149.5	1,188.4
Structures	650.5	787.5	895.5	916.1	936.5	958.6	984.0	1,011.7	1,040.6	1,073.4	1,106.0
Net stocks	662.9	860.1	1,012.4	1,033.7	1,056.9	1,089.5	1,135.3	1,184.6	1,226.1	1,271.3	1,301.6
Equipment	276.9	379.7	467.8	480.4	495.7	519.2	553.2	588.7	615.4	642.7	655.7
Structures	386.0	480.3	544.6	553.3	561.2	570.3	582.1	595.9	610.8	628.6	645.9
Depreciation	58.2	76.2	92.1	96.1	99.6	103.8	109.2	115.3	121.3	126.9	132.4
Equipment	37.3	50.8	63.4	66.6	69.4	73.0	77.5	82.8	87.8	92.4	96.7
Structures	20.9	25.4	28.7	29.5	30.1	30.8	31.6	32.5	33.5	34.6	35.7
Manufacturing:											
Gross stocks	298.0	363.6	407.7	420.1	433.6	450.8	469.8	494.7	516.6	537.6	552.4
Equipment	157.3	204.4	241.5	253.0	265.4	281.0	297.8	319.7	339.9	356.9	369.2
Structures	138.7	159.1	166.2	167.1	168.2	169.7	172.0	175.0	177.7	180.7	183.3
Net stocks	158.1	202.2	225.9	232.7	239.7	249.2	259.5	275.1	287.0	297.3	301.3
Equipment	84.8	115.8	137.4	144.3	151.1	160.3	169.7	183.3	193.6	202.2	205.0
Structures	73.2	86.3	88.5	88.4	88.6	88.9	89.7	91.7	93.4	95.1	96.3
Depreciation	15.9	20.4	23.0	24.0	25.0	25.2	27.6	29.4	31.3	33.0	34.6
Equipment	11.1	14.8	17.1	18.0	19.0	20.1	21.5	23.1	25.0	26.6	28.0
Structures	4.8	5.6	5.9	6.0	6.0	6.1	6.1	6.2	6.3	6.5	6.6
Nonfarm nonmfg:											
Gross stocks	772.8	988.7	1,193.3	1,228.5	1,265.1	1,309.0	1,365.9	1,422.7	1,478.0	1,540.7	1,597.0
Equipment	299.6	405.0	514.6	532.0	551.6	577.3	613.6	647.8	678.7	712.8	740.3
Structures	473.2	583.7	678.7	696.5	713.5	731.7	752.4	774.9	799.4	827.9	856.7
Net stocks	456.1	600.7	721.1	732.6	745.8	765.8	797.8	828.6	857.4	892.3	920.0
Equipment	166.9	233.8	295.3	299.4	306.2	319.1	341.8	361.9	378.4	397.6	409.7
Structures	289.2	366.9	425.7	433.2	439.6	446.7	456.0	466.6	479.0	494.7	510.3
Depreciation	37.5	50.1	62.7	65.4	67.7	70.4	74.0	78.1	81.9	85.7	89.7
Equipment	22.5	31.5	41.3	43.3	45.0	47.1	50.1	53.4	56.4	59.3	62.3
Structures	15.0	18.5	21.5	22.1	22.7	23.3	23.9	24.6	25.4	26.4	27.4

¹ Includes farm, not shown separately.

Source: U.S. Bureau of Economic Analysis, *Fixed Reproducible Tangible Wealth in the United States, 1925-79, Survey of Current Business*, October 1982 and August 1983.

NO. 912. FIXED NONRESIDENTIAL BUSINESS CAPITAL—AVERAGE AGE OF GROSS STOCKS, CONSTANT (1972) COST VALUATION: 1965 TO 1982

[Age in years. As of Dec. 31. See headnote, table 911, and *Historical Statistics, Colonial Times to 1970*, series F 516-527]

ITEM	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982
All Industries: Gross stocks	11.2	10.3	10.0	10.1	10.1	10.1	10.1	10.0	10.0	10.0	10.0
Equipment	7.0	6.5	6.3	6.4	6.4	6.4	6.3	6.3	6.3	6.3	6.3
Structures	14.5	13.5	13.4	13.5	13.7	13.8	13.9	14.0	14.0	14.1	14.1
Manufacturing: Gross stocks	19.7	9.8	9.7	9.6	9.5	9.5	9.4	9.2	9.1	9.0	9.1
Equipment	7.2	6.6	6.6	6.6	6.6	6.5	6.5	6.4	6.4	6.4	6.6
Structures	14.6	14.0	14.2	14.2	14.3	14.3	14.3	14.2	14.2	14.1	14.1
Nonfarm nonmfg.: Gross stocks	11.5	10.4	10.1	10.2	10.3	10.4	10.3	10.3	10.3	10.3	10.3
Equipment	6.9	6.4	6.1	6.3	6.3	6.3	6.2	6.2	6.2	6.1	6.1
Structures	14.3	13.2	13.1	13.2	13.4	13.6	13.7	13.8	13.9	13.9	14.0
Farm: Gross stocks	10.8	10.5	10.4	10.4	10.3	10.3	10.2	10.2	10.4	10.6	11.0
Equipment	7.2	6.7	6.5	6.4	6.4	6.4	6.3	6.3	6.5	6.7	6.9
Structures	15.4	15.2	15.4	15.3	15.3	15.2	15.1	15.2	15.3	15.5	15.8

Source: U.S. Bureau of Economic Analysis, *Fixed Reproducible Tangible Wealth in the United States, 1925-79*, and *Survey of Current Business*, August 1983.

NO. 913. GROSS PRIVATE DOMESTIC INVESTMENT: 1960 TO 1982

[In billions of dollars]

ITEM	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981	1982
CURRENT DOLLARS											
Gross private domestic investment	75.9	113.5	144.2	206.1	257.9	324.1	386.6	423.0	401.9	474.9	414.5
Fixed investment	72.9	103.7	141.0	213.0	248.0	301.0	360.1	408.8	411.7	456.5	439.1
Nonresidential	48.5	72.7	103.9	157.7	174.1	205.2	248.9	280.2	308.8	352.2	348.3
Structures	18.6	27.0	38.7	55.4	58.3	64.4	78.7	98.3	110.9	133.4	141.9
Producers' durable equipment	29.7	45.8	65.2	102.3	115.3	140.8	170.2	191.9	197.9	218.8	206.4
Residential	24.5	30.9	37.1	55.3	72.0	95.8	111.2	118.6	102.9	104.3	90.8
Less: Capital consumption allowances ¹	46.3	56.0	88.1	159.3	175.0	195.2	222.5	256.0	293.2	329.5	359.2
Equals: Net private domestic investment	29.6	57.5	56.2	46.8	82.8	128.9	164.1	167.0	108.7	145.4	55.3
CONSTANT (1972) DOLLARS											
Gross private domestic investment	104.7	151.9	158.5	154.8	184.5	214.2	236.7	236.3	208.5	227.6	194.5
Fixed investment	101.2	140.1	154.8	161.5	176.7	200.9	220.7	229.1	212.9	219.1	203.9
Nonresidential	66.9	97.4	113.8	119.3	125.0	140.3	158.3	169.9	165.8	174.4	166.1
Structures	29.5	40.6	43.9	38.3	39.5	40.4	44.6	49.1	48.8	52.5	53.4
Producers' durable equipment	37.4	56.8	69.9	81.1	86.1	99.9	113.7	120.8	117.0	121.9	112.7
Residential	34.2	42.7	41.0	42.2	51.2	60.7	62.4	59.1	47.1	44.7	37.8
Less: Capital consumption allowances ¹	63.3	74.8	96.1	120.8	125.1	129.9	135.8	143.0	149.8	155.9	162.5
Equals: Net private domestic investment	41.4	77.2	62.4	34.0	59.4	84.3	100.9	93.3	58.7	71.6	32.0

¹ With capital consumption adjustment.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-76*, and *Survey of Current Business*, July 1983.

NO. 914. CAPITAL STOCK PER HOUR WORKED: 1950 TO 1979

[In 1972 dollars. Represents the "capital/labor ratio"]

INDUSTRY AND 1972 INDUSTRY CODE	1950	1960	1970	1979	INDUSTRY AND 1972 INDUSTRY CODE	1950	1960	1970	1979
Public utilities, 49	69.49	103.96	134.42	167.09	Fabricated metals, 34	4.17	6.60	7.98	9.30
Petroleum, 29	34.25	46.26	63.19	69.60	Rubber and plastics, 30	5.88	8.76	9.00	8.96
Communication, 48	21.14	35.89	50.07	67.06	Finance and insurance, 60-64	5.15	6.57	8.65	10.56
Transportation, 41-47	34.56	44.13	43.29	37.60	Lumber and wood, 24	5.93	4.18	6.25	7.34
Primary metals, 33	13.99	23.31	27.46	29.65	Instruments, 38	5.84	6.19	7.47	7.52
Mining, 10-14	21.02	27.35	30.95	21.93	Textiles, 22	3.54	7.32	8.47	9.43
Tobacco, 21	17.21	22.53	23.93	35.93	Electric machinery, 36	4.99	4.80	7.24	8.47
Chemicals, 28	15.10	20.17	22.42	28.73	Printing and publishing, 27	6.01	4.84	6.28	7.01
Paper, 26	14.07	15.48	18.02	22.03	Wholesale, retail trade, 50-59	4.37	5.28	7.72	7.33
Stone, clay, glass, 32	8.29	12.22	14.55	15.29	Construction, 15-17	1.98	3.03	4.57	3.39
Transportation equipment, 37	6.84	8.26	11.91	13.48	Furniture and fixtures, 25	4.24	3.84	4.49	5.02
Nonelectric machinery, 35	6.76	8.40	10.42	11.72	Leather, 31	2.70	2.42	3.04	3.58
Food, 20	8.95	9.67	10.72	13.06	Apparel, 23	1.88	1.51	2.48	2.99
Services, 70-89	5.80	6.54	9.74	9.21					

Source: The Conference Board, N.Y., *Economic Road Maps*, monthly. (Copyright.)

NO. 915. BUSINESS EXPENDITURES FOR NEW PLANT AND EQUIPMENT: 1965 TO 1983

[In billions of dollars, except percent. Excludes expenditures of agricultural business and current account outlays. Based on sample and subject to sampling variability; see text, p. 530. These figures do not agree with the fixed nonresidential investment data mainly because those data exclude investments for equipment, and include investment by farmers and certain outlays to current account. Minus sign (—) indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series V 306-332]

INDUSTRY	1965	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983 ¹
CURRENT DOLLARS											
Total	70.4	105.6	157.7	171.4	198.1	231.2	270.5	295.6	321.5	316.4	310.9
Manufacturing.....	25.4	37.0	54.9	59.9	69.2	79.7	98.7	115.8	126.8	119.7	115.9
Durable goods ²	13.5	19.8	28.3	28.5	34.0	40.4	51.1	58.9	61.8	56.4	54.2
Primary metals.....	2.6	3.2	5.8	5.8	5.4	5.7	6.0	7.7	8.1	7.5	6.0
Electrical machinery ³	1.7	3.5	3.1	3.7	4.7	5.7	7.3	9.6	10.3	10.6	11.0
Machinery ⁴	2.2	3.8	5.0	5.5	6.6	7.2	10.5	11.6	13.2	12.9	13.1
Transportation equip.....	3.7	4.6	5.9	6.4	9.1	12.0	15.3	18.2	18.4	15.2	14.6
Percent motor veh.....	80.2	65.6	56.6	56.7	64.2	60.1	54.2	49.9	54.8	52.2	55.3
Nondurable goods ²	11.9	17.2	28.6	31.5	35.2	39.3	47.6	56.9	64.9	63.2	61.7
Food and beverage.....	1.9	3.3	4.0	4.8	5.1	6.0	6.6	7.4	8.2	7.7	7.5
Paper.....	1.1	1.7	3.0	3.1	3.6	4.0	5.5	6.8	6.7	6.0	6.1
Chemicals.....	2.8	3.4	7.6	8.1	8.1	8.5	10.8	12.6	13.6	13.3	13.7
Petroleum.....	3.9	5.2	9.6	10.8	12.7	13.9	16.2	20.7	26.6	26.7	24.6
Nonmanufacturing.....	45.0	68.6	102.8	111.5	128.9	151.5	171.8	179.8	194.7	196.8	195.0
Mining.....	1.4	2.0	6.1	7.4	9.2	10.2	11.4	13.5	16.9	15.5	15.5
Transportation.....	5.5	7.0	8.7	8.9	9.4	10.7	12.3	12.1	12.0	11.9	11.0
Public utilities.....	6.5	13.0	20.0	22.4	26.8	29.9	34.0	35.4	38.4	42.0	41.0
Electric.....	4.8	10.6	16.7	18.8	22.2	24.6	27.6	28.1	29.7	33.4	33.1
Gas and other.....	1.7	2.5	3.3	3.6	4.6	5.3	6.3	7.3	8.7	8.6	7.9
Trade and services.....	22.1	29.8	46.2	49.3	56.5	68.7	79.3	81.8	86.3	88.9	87.8
Comm. and other ⁵	9.6	16.9	21.8	23.5	26.9	32.0	34.8	37.0	41.1	40.5	39.8
Average annual percent change: ⁶											
Total.....	⁷ 7.7	8.5	8.4	8.7	15.6	16.7	17.0	9.3	8.8	-1.6	-1.7
Manufacturing.....	⁷ 9.1	7.8	8.2	9.1	15.5	15.2	23.8	17.3	9.5	-5.6	3.2
Nonmanufacturing.....	⁷ 6.9	8.8	8.4	8.5	15.6	17.5	13.4	4.7	8.3	1.1	-0.9
CONSTANT (1972) DOLLARS⁸											
Total	93.2	115.3	119.7	123.1	134.8	146.4	157.7	159.1	159.4	150.7	144.9
Manufacturing.....	33.2	40.0	41.2	42.3	46.1	48.8	55.4	60.0	60.8	55.5	53.1
Durable goods.....	17.3	21.4	20.3	20.7	23.5	25.7	29.7	31.9	31.7	28.5	27.1
Nondurable goods.....	15.9	18.6	20.9	21.7	22.7	23.1	25.7	28.1	29.1	27.0	26.0
Nonmanufacturing.....	60.0	75.3	78.5	80.8	88.6	97.6	102.3	99.1	98.7	95.2	91.8
Mining.....	1.8	2.2	4.1	4.7	5.3	5.1	5.1	5.1	5.4	4.6	4.7
Transportation.....	6.9	7.5	6.5	6.2	6.3	6.6	6.8	6.0	5.6	5.4	4.8
Public utilities.....	8.6	14.3	14.2	14.9	16.8	17.5	18.3	17.5	17.3	17.8	17.0
Trade and services.....	29.7	32.4	36.3	37.6	40.9	46.4	49.4	47.3	47.3	46.3	45.5
Comm. and other ⁵	13.1	18.8	17.3	17.5	19.4	22.0	22.7	23.1	23.1	21.1	19.9
Average annual percent change: ⁶											
Total.....	⁷ 6.9	4.2	.8	2.8	9.5	8.7	7.7	.9	.2	-5.5	-3.8
Manufacturing.....	⁷ 8.4	3.8	.6	2.7	8.9	5.8	13.6	8.2	1.2	-8.7	-4.3
Nonmanufacturing.....	⁷ 6.2	4.7	.8	2.9	9.7	10.2	4.7	-3.1	-4	-3.5	-3.6

¹ Estimates based on expected capital expenditures as reported by business in late January and February 1983.

² Includes industries not shown separately. ³ Includes equipment. ⁴ Excludes electrical. ⁵ Includes construction; social services and membership organizations; and forestry, fisheries, and agricultural services. ⁶ Change from prior year shown: e.g., 1970 from 1965, except as noted. For explanation of average annual percent change, see Guide to Tabular Presentation.

⁷ Change from 1960. ⁸ Constant-dollar expenditures since 1977 have been reestimated using deflators that reflect revisions of the national income and product accounts released in July 1982.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, monthly.

NO. 916. DETERMINANTS OF BUSINESS FIXED INVESTMENT: 1960 TO 1982

[Percent, except as noted. 1982 preliminary. GNP=Gross national product]

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982
Real investment as percent of real GNP....	9.1	10.5	10.5	10.9	9.7	9.7	10.2	11.0	11.5	11.3	11.4	11.2
Capacity utilization rate in mfg. ¹	80.2	89.6	79.3	83.8	72.9	79.5	81.9	84.4	85.7	79.1	78.5	69.8
Nonfinancial corporations:												
Cash flow as percent of GNP ²	8.9	10.6	7.8	7.0	9.0	9.3	9.7	9.5	8.9	8.7	9.5	9.6
Rate of return before taxes—												
On depreciable assets ³	15.0	22.1	12.8	11.0	11.9	12.9	13.9	13.7	12.1	10.5	11.0	9.5
On stockholders' equity ⁴	9.9	15.5	8.8	11.2	8.5	8.6	10.2	10.7	10.2	8.4	7.7	(NA)
Ratio of market value to replacement cost of net assets ⁵	1.22	1.62	1.09	.83	.81	.91	.80	.76	.71	.67	.69	.69

NA Not available. ¹ Federal Reserve Board index. For capacity by stage of processing, see Section 29. ² Cash flow defined as after-tax profits plus capital consumption allowance plus inventory valuation adjustment. ³ Profits plus capital consumption adjustment and inventory valuation adjustment plus net interest paid divided by the stock of depreciable assets valued at current replacement cost. ⁴ Profits corrected for inflation effects divided by net worth (physical capital component valued at current replacement cost). ⁵ Equity plus interest-bearing debt divided by current replacement cost of net assets.

Source: U.S. Council of Economic Advisers, *Economic Report of the President, 1983*. Data from U.S. Bureau of Economic Analysis and the Board of Governors of the Federal Reserve System.

NO. 917. COMPOSITE INDEXES OF ECONOMIC CYCLICAL INDICATORS: 1973 TO 1982

[1982 figures are preliminary. See source for discussion of composite indexes. Minus sign (-) indicates decrease]

ITEM	Unit	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
LEADING INDICATORS											
Composite Index	1967=100.	132.2	121.2	115.7	130.9	139.4	145.8	145.1	138.2	140.9	137.0
Net business formation.....	1967=100.	114.9	109.2	107.0	115.6	123.2	128.2	128.3	122.4	118.6	113.0
Building permits ¹	1967=100.	157.1	92.2	80.9	111.8	144.9	145.4	123.6	98.7	80.0	79.6
Common stock prices, index ²	1941=										
43=10.....	107.4	82.8	86.2	102.0	98.2	96.0	103.0	118.8	128.0	119.7	
Initial claims, unemployment insurance.....	1,000.....	240	351	468	381	368	338	379	480	445	578
Change in sensitive prices ^{3,4}	Percent.....	2.3	-1	-3	1.1	4	1.3	.9	-	-6	-7
Change in credit outstanding ⁵	Percent.....	15.0	10.5	3.5	10.1	15.2	14.6	13.4	5.9	7.1	1.4
Vendor performance, slower deliveries.....	Percent.....	88	66	30	54	55	84	63	40	45	37
Avg. workweek, manufacturing ⁶	Hours.....	40.7	40.0	39.5	40.1	40.3	40.4	40.2	39.7	39.8	38.9
Change in inventories (1972 dol.) ^{4,7}	Bil. dol.....	27	10	-18	8	13	21	9	-9.9	3	-15
Plant and equipment contracts and orders (1972 dol.).....	Bil. dol.....	149	149	117	132	146	173	186	172	169	148
New orders, manufacturing, consumer goods and materials (1972 dol.).....	Bil. dol.....	434	396	342	391	433	459	450	400	397	352
Money supply (M2) ⁸ (1972 dol.).....	Bil. dol.....	788	753	753	805	852	859	836	896	790	814
COINCIDENT INDICATORS											
Composite Index	1967=100.	128.2	126.4	116.2	124.3	133.8	144.0	150.2	144.8	146.0	138.2
Industrial production index.....	1967=100.	129.8	129.3	117.8	130.5	138.2	146.1	152.5	147.0	151.0	138.6
Employees, nonagricultural payrolls.....	Million.....	76.8	78.3	76.9	79.4	82.5	86.7	89.8	90.4	91.1	89.6
Personal income less transfer payments (1972 dol.).....	Bil. dol.....	894	882	867	909	956	1,012	1,047	1,040	1,069	1,066
Sales, mfg. and trade (1972 dol.).....	Bil. dol.....	1,686	1,672	1,569	1,682	1,797	1,901	1,942	1,887	1,909	1,826
LAGGING INDICATORS											
Composite Index	1967=100.	110.8	117.0	110.9	103.5	106.4	114.0	122.6	124.6	122.4	122.9
Labor cost per unit of output, mfg.....	Percent.....	96.4	99.0	104.6	100.0	102.2	99.6	98.7	102.0	100.4	100.9
Ratio, consumer installment credit to personal income.....	Percent.....	13.6	13.6	13.0	12.9	13.6	14.4	15.0	14.3	13.3	13.0
Average prime rate charged by banks.....	Percent.....	8.0	10.8	7.9	6.8	6.8	9.1	12.7	15.3	18.9	14.9
Average duration of unemployment.....	Weeks.....	10.0	9.8	14.2	15.8	14.3	11.9	10.8	11.9	13.7	15.6
Ratio inventories to sales, mfg. and trade (1972 dol.).....	Ratio.....	1.5	1.6	1.7	1.6	1.6	1.6	1.6	1.7	1.7	1.7
Commercial and industrial loans outstanding (1972 dol.) ⁹	Bil. dol.....	93	96	90	80	79	82	89	89	92	106

- Represents zero. ¹ New private housing units authorized. ² Standard and Poor, 500 stocks. ³ Producer price index of selected crude and intermediate materials and spot market price index of raw industrial materials. ⁴ Weighted 4-term moving average placed at the terminal month of the span. ⁵ Business and consumer borrowing. ⁶ Production workers. ⁷ Net changes in book value. ⁸ See table 865. ⁹ Includes commercial paper issued by nonfinancial companies.

Source: U.S. Bureau of Economic Analysis, *Business Conditions Digest*, monthly.

NO. 918. INTERNATIONAL ECONOMIC COMPOSITE INDEXES: 1960 TO 1982

[Average annual percent changes derived from indexes with base 1970=100. Minus sign (-) indicates decrease]

YEARS	6 countries excluding U.S.	7 countries	United States	Canada	France	Italy	Japan	United Kingdom	West Germany
LEADING INDEX									
1960-1965.....	3.6	4.5	5.1	5.8	5.1	4.0	3.1	1.2	3.8
1965-1970.....	5.2	2.7	.9	3.1	5.8	4.8	10.8	.9	4.3
1970-1975.....	3.6	3.2	2.8	6.3	3.7	4.0	5.8	1.8	1.5
1975-1980.....	6.8	5.3	4.0	5.9	6.0	5.5	11.5	3.0	4.7
1974-1975.....	-3.6	-3.3	-3.0	-9	-7.8	.2	-9.7	-8	3.2
1975-1976.....	9.2	10.2	11.2	4.0	8.8	5.3	16.2	6.3	7.8
1976-1977.....	3.4	5.0	6.3	3.6	2.2	2.3	3.0	6.2	3.3
1977-1978.....	5.6	5.0	4.4	7.5	4.8	4.5	7.6	1.8	5.8
1978-1979.....	10.1	5.3	1.3	10.8	9.8	6.9	17.6	2.8	6.1
1979-1980.....	5.8	1.0	-3.4	3.8	4.7	9.3	13.0	-2.0	.7
1980-1981.....	1.5	2.0	2.6	3.0	3.7	4.7	-8	.9	.5
1981-1982.....	1.7	-2.3	-6.3	-6.9	3.7	2.2	2.1	3.1	3.2
COINCIDENT INDEX									
1960-1965.....	7.4	6.2	5.3	5.9	8.8	3.8	15.5	4.8	6.6
1965-1970.....	6.6	5.1	4.0	4.5	6.1	5.9	13.3	2.6	5.5
1970-1975.....	3.9	2.5	1.8	5.5	3.9	2.5	4.6	2.3	1.6
1975-1980.....	3.7	4.1	4.5	3.1	3.5	3.6	4.7	2.2	4.1
1974-1975.....	-2.7	-4.8	-6.7	.8	-5.0	-5.0	-1.7	-2.9	-2.3
1975-1976.....	3.7	5.6	7.3	4.8	5.1	3.9	3.9	.2	3.8
1976-1977.....	3.4	5.2	6.8	1.7	3.9	1.8	4.8	2.3	3.7
1977-1978.....	4.1	5.8	7.5	3.2	2.9	2.4	4.7	5.9	4.1
1978-1979.....	5.0	4.5	4.0	4.3	3.6	4.7	6.4	5.1	5.4
1979-1980.....	2.5	-5	-3.0	1.3	2.1	5.3	3.6	-2.5	3.5
1980-1981.....	-4	.4	1.0	2.9	-1.7	-9	2.4	-6.6	-2
1980-1981.....	-5	-3.3	-5.7	-6.1	1.4	-9	1.9	-1.6	-1.5

Source: Center for International Business Cycle Research, Columbia Business School, New York, N.Y., *International Economic Indicators*, monthly.

NO. 919. BUSINESS CYCLE EXPANSIONS AND CONTRACTIONS—MONTHS OF DURATION: 1919 TO 1982

[The lower turning point of a cycle is considered a trough, the upper turning point a peak. Business cycle reference dates are determined by the National Bureau of Economic Research, Inc.]

BUSINESS CYCLE REFERENCE DATE		Contraction (trough from previous peak)	Expansion (trough to peak)	LENGTH OF CYCLE	
Trough	Peak			Trough from previous trough	Peak from previous peak
March 1919.....	January 1920.....	7	10	51	17
July 1921.....	May 1923.....	18	22	28	40
July 1924.....	October 1926.....	14	27	36	41
November 1927.....	August 1929.....	13	21	40	34
March 1933.....	May 1937.....	43	50	64	93
June 1938.....	February 1945.....	13	80	63	93
October 1945.....	November 1948.....	8	37	88	45
October 1949.....	July 1953.....	11	45	48	56
May 1954.....	August 1957.....	10	39	55	49
April 1958.....	April 1960.....	8	24	47	32
February 1961.....	December 1969.....	10	106	34	116
November 1970.....	November 1973.....	11	36	117	47
March 1975.....	January 1980.....	16	58	52	74
July 1980.....	July 1981.....	6	12	64	18
November 1982.....	(X).....	16	(X)	28	(X)
Average, all cycles:					
1919-1945 (6 cycles).....		18	35	53	53
1945-1982 (8 cycles).....		11	45	56	55
Average, peacetime cycles:					
1919-1945 (5 cycles).....		20	26	46	45
1945-1982 (6 cycles).....		11	34	46	44

X Not applicable.

Source: U.S. Bureau of Economic Analysis, *Business Conditions Digest*, July 1983.

NO. 920. MANUFACTURING AND TRADE—SALES AND INVENTORIES IN CURRENT AND CONSTANT (1972) DOLLARS: 1960 TO 1982

[In billions of dollars, except ratios. See *Historical Statistics, Colonial Times to 1970*, series V 78-107, for single year figures prior to revisions issued in 1981]

ITEM	1960	1965	1970 ¹	1974	1975	1976	1977	1978	1979	1980	1981	1982
CURRENT DOLLARS												
Sales, average monthly.....	61	80	107	178	182	204	230	260	298	327	356	344
Manufacturing.....	31	41	53	85	87	99	113	127	144	154	168	159
Retail trade.....	18	24	31	45	49	55	60	67	75	80	87	80
Merchant wholesalers.....	12	16	24	48	47	51	56	66	79	93	101	95
Inventories ²	95	121	178	286	288	319	351	399	451	493	526	512
Manufacturing.....	54	68	102	158	160	175	189	210	241	264	282	265
Retail trade.....	27	34	44	71	72	79	89	103	111	116	127	128
Merchant wholesalers.....	14	18	33	57	57	64	72	86	98	112	117	119
Inventory-sales ratio ³	1.56	1.45	1.62	1.45	1.57	1.48	1.46	1.44	1.43	1.45	1.44	1.51
Manufacturing.....	1.75	1.60	1.90	1.65	1.84	1.69	1.61	1.57	1.57	1.66	1.66	1.76
Retail trade.....	1.45	1.39	1.41	1.48	1.44	1.38	1.39	1.43	1.44	1.42	1.40	1.41
Merchant wholesalers.....	1.22	1.15	1.29	1.07	1.21	1.19	1.21	1.20	1.18	1.14	1.13	1.24
CONSTANT (1972) dollars												
Sales, average monthly.....	76	98	116	141	132	142	152	160	164	160	161	153
Manufacturing.....	38	50	56	67	62	67	72	76	78	74	75	70
Retail trade.....	23	29	34	40	40	43	45	47	48	46	47	46
Merchant wholesalers.....	15	19	26	34	31	32	34	37	38	39	39	38
Inventories.....	120	149	194	233	225	235	246	260	264	264	269	261
Manufacturing.....	70	87	113	131	127	131	134	140	145	146	148	140
Retail trade.....	30	37	46	58	56	59	63	67	66	63	66	65
Merchant wholesalers.....	20	25	35	44	42	45	49	53	53	55	56	57
Inventory-sales ratios ⁴	1.60	1.48	1.70	1.73	1.67	1.63	1.59	1.58	1.62	1.63	1.72	1.73
Manufacturing.....	1.66	1.69	2.07	2.04	2.04	1.91	1.82	1.79	1.89	1.93	2.05	2.07
Retail trade.....	1.31	1.25	1.37	1.57	1.36	1.36	1.39	1.41	1.39	1.37	1.44	1.40
Merchant wholesalers.....	1.37	1.27	1.35	1.37	1.36	1.39	1.39	1.38	1.38	1.37	1.45	1.54

¹ Beginning 1970, data not comparable with earlier years due to revised procedures. ² Book value; seasonally adjusted end-of-year data. See text, page 530. ³ Average inventories to average monthly sales. Average inventories based on weighted averages of end-of-month figures. ⁴ End of fourth quarter inventories to average month sales for fourth quarter.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-1976*; *Survey of Current Business*, July 1982, September 1983, and unpublished data.

NO. 921. MANUFACTURING CORPORATIONS, ASSETS, AND PROFITS, BY ASSET SIZE: 1970 TO 1982

[Corporations and assets as of end of 4th quarter; profit for entire year. Corporations under \$10 million based on sample; \$10 million and over based on complete canvass through 1979—thereafter, under \$25 million based on sample and \$25 million and over based on complete canvass. For details regarding methodology, see source for fourth quarter, 1981]

YEAR AND ITEM	Unit	Total	ASSET-SIZE CLASS							
			Under \$10 mil.	\$10-\$25 mil.	\$25-\$50 mil.	\$50-\$100 mil.	\$100-\$250 mil.	\$250 mil.-\$1 bil.	\$1 bil. and over	
1970: ¹ Corporations.....	Number.....	197,807	² 195,000	1,202	533	366	289	218	102	
Assets, total.....	Mil. dol.....	578,234	69,101	20,471	20,138	25,946	47,783	112,475	282,320	
Net profit, total ³	Mil. dol.....	28,572	2,812	811	836	1,101	2,315	5,862	14,832	
1971: Corporations.....	Number.....	(NA)	(NA)	1,191	539	368	309	222	111	
Assets, total.....	Mil. dol.....	584,253	67,235	19,379	19,631	25,423	47,820	108,155	296,810	
Net profit, total ³	Mil. dol.....	6,995	408	186	150	196	487	1,260	4,309	
1972: Corporations.....	Number.....	(NA)	(NA)	1,323	543	362	317	235	115	
Assets, total.....	Mil. dol.....	623,823	73,894	21,218	19,048	25,138	48,818	114,550	321,158	
Net profit, total ³	Mil. dol.....	7,934	895	224	207	297	562	1,329	4,420	
1973: Corporations.....	Number.....	(NA)	(NA)	1,462	597	402	327	246	124	
Assets, total.....	Mil. dol.....	742,266	89,305	26,902	23,373	30,223	53,075	126,635	392,753	
Net profit, total ³	Mil. dol.....	48,058	6,634	1,731	1,360	1,844	3,142	8,063	25,284	
1974: Corporations.....	Number.....	(NA)	(NA)	1,699	708	434	383	284	137	
Assets, total.....	Mil. dol.....	768,954	97,858	28,908	24,734	30,690	60,262	171,821	364,681	
Net profit, total ³	Mil. dol.....	58,747	7,717	1,896	1,385	2,126	3,700	9,661	32,260	
1975: Corporations.....	Number.....	(NA)	(NA)	1,750	705	450	392	276	151	
Assets, total.....	Mil. dol.....	810,910	98,147	31,307	24,720	31,395	62,524	139,113	423,705	
Net profit, total ³	Mil. dol.....	49,135	6,212	1,831	1,327	1,676	3,553	8,165	26,370	
1976: Corporations.....	Number.....	(NA)	(NA)	1,705	757	472	400	301	182	
Assets, total.....	Mil. dol.....	883,860	98,355	32,244	26,538	32,970	62,633	149,412	481,709	
Net profit, total ³	Mil. dol.....	64,519	7,799	2,238	1,714	2,070	3,945	10,422	36,330	
1977: Corporations.....	Number.....	(NA)	(NA)	1,793	809	501	408	327	174	
Assets, total.....	Mil. dol.....	962,996	102,241	35,603	28,595	35,032	63,590	160,107	537,830	
Net profit, total ³	Mil. dol.....	70,366	8,683	2,189	1,867	2,252	4,401	11,206	39,769	
1978: Corporations.....	Number.....	(NA)	(NA)	1,780	802	518	408	320	181	
Assets, total.....	Mil. dol.....	1,086,433	114,006	38,358	30,813	37,429	66,807	164,958	633,953	
Net profit, total ³	Mil. dol.....	81,185	9,417	2,487	2,264	2,602	4,712	12,311	47,391	
1979: Corporations.....	Number.....	(NA)	(NA)	1,918	879	571	470	341	225	
Assets, total.....	Mil. dol.....	1,242,985	124,853	42,007	34,082	40,336	73,172	169,599	758,937	
Net profit, total ³	Mil. dol.....	98,698	10,119	2,720	2,347	2,898	5,347	13,412	61,854	
1980: Corporations.....	Number.....	(NA)	(NA)	1,777	941	590	491	369	244	
Assets, total.....	Mil. dol.....	1,394,474	126,639	43,569	34,930	41,963	75,284	179,959	882,129	
Net profit, total ³	Mil. dol.....	92,443	7,770	2,235	1,904	2,479	4,532	11,485	62,041	
1981: Corporations.....	Number.....	(NA)	(NA)	845	603	520	376	259	154	
Assets, total.....	Mil. dol.....	1,560,353	136,915	57,453	39,756	43,924	82,287	188,913	1,011,105	
Net profit, total ³	Mil. dol.....	101,302	8,883	3,077	1,944	2,415	4,560	10,087	70,354	
1982: Corporations.....	Number.....	(NA)	(NA)	820	642	510	378	275	174	
Assets, total.....	Mil. dol.....	1,614,018	141,363	55,327	38,333	48,013	78,766	180,047	1,072,068	
Percent.....	Percent.....	100.0	8.8	3.4	2.4	3.0	4.9	11.2	66.4	
Net profit, total ³	Mil. dol.....	71,028	5,193	2,278	1,196	1,421	2,643	6,892	51,405	
Percent.....	Percent.....	100.0	7.3	3.2	1.7	2.0	3.7	9.7	72.4	

NA Not available. ¹ Source: U.S. Securities and Exchange Commission. ² Data derived from U.S. Internal Revenue Service, *Statistics of Income*, annual. ³ After taxes.

Source: Except as noted through 1981, U.S. Federal Trade Commission; thereafter, U.S. Bureau of the Census, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*.

NO. 922. LARGEST INDUSTRIAL CORPORATIONS—SALES, ASSETS, NET INCOME, AND EMPLOYEES, BY GROUP RANK: 1980 TO 1982

[Sales, assets, and net income in billions of dollars; employees in thousands, except percent. Excludes large privately owned companies that do not publish sales. Includes service and rental revenues, but companies must derive more than 50 percent of revenues from manufacturing or mining for years ending not later than Dec. 31 of year stated, except 1981, no later than January; sales exclude excise taxes collected by manufacturer and include discontinued operations]

RANK BY SALES GROUP	SALES			ASSETS ¹			NET INCOME ²			EMPLOYEES ³		
	1980	1981	1982	1980	1981	1982	1980	1981	1982	1980	1981	1982
First 500 largest	1,650.3	1,773.4	1,672.2	1,175.5	1,282.8	1,308.7	81.2	84.2	61.4	15,910	15,635	14,362
Lowest hundred	55.6	55.5	50.4	37.9	37.7	35.3	2.3	2.4	1.7	781	702	591
Second hundred	81.6	84.5	77.3	60.9	64.6	62.8	4.1	3.3	2.3	1,186	1,082	993
Third hundred	137.2	143.6	132.4	107.5	113.9	114.2	7.6	8.7	5.3	1,709	1,756	1,492
Fourth hundred	260.6	282.9	264.7	204.5	223.3	218.2	13.5	14.7	8.8	3,321	3,227	2,907
Highest hundred	1,115.2	1,207.0	1,147.4	764.6	843.3	878.1	53.6	55.2	43.2	8,913	8,889	8,367
Percent of total, first 500:												
Lowest hundred	3.4	3.1	3.0	3.2	2.9	2.7	2.9	2.8	2.8	4.9	4.5	4.1
Second hundred	4.9	4.8	4.6	5.2	5.0	4.8	5.1	3.9	3.8	7.5	6.8	6.8
Third hundred	8.3	8.1	7.9	9.1	8.9	8.7	9.4	10.3	8.7	10.7	11.2	10.4
Fourth hundred	15.8	16.0	15.8	17.4	17.4	16.7	16.6	17.4	14.3	20.9	20.6	20.2
Highest hundred	67.6	68.1	68.6	65.0	65.7	67.1	66.0	65.6	70.4	56.0	56.9	58.4

¹ Total assets employed in business at end of fiscal year, less depreciation and depletion. ² After taxes, special charges, and credits. Minus sign (-) indicates net loss. ³ As of year end, or yearly average.

Source: Time, Inc., New York, N.Y., *The Fortune Directory*, May and June issues. (Copyright.)

No. 923. 500 LARGEST INDUSTRIAL CORPORATIONS—SELECTED FINANCIAL ITEMS, BY INDUSTRY: 1981 AND 1982

[Data are ranked based on sales per employee for latest year shown. See headnote, table 922. Minus sign (–) indicates decrease. For definition of median, see Guide to Tabular Presentation]

INDUSTRY	SALES PER EMPLOYEE (\$1,000)		CHANGES IN PROFITS (percent)		SALES PER DOLLAR OF STOCKHOLDER'S EQUITY (dol.)		RETURN ON STOCKHOLDER'S EQUITY (percent)		RETURN ON SALES (percent)		TOTAL RETURN TO INVESTORS ¹ (percent)	
	1981	1982	1981	1982	1981	1982	1981	1982	1981	1982	1981	1982
Total	86.4	90.8	3.7	–27.1	2.97	2.74	13.8	10.9	4.6	3.6	–.4	22.2
Petroleum refining.....	512.9	515.7	–7.6	–14.9	4.19	3.28	16.4	12.5	4.4	4.0	–23.2	–10.8
Mining, crude-oil production.....	302.8	195.9	1.6	–47.5	2.18	1.67	17.6	9.0	11.7	3.0	–23.9	–22.6
Food.....	115.0	123.8	10.6	7.1	4.33	4.88	14.4	15.3	3.3	3.3	18.2	39.7
Beverages.....	139.3	120.0	15.1	8.5	2.89	3.00	19.2	16.7	5.5	5.4	31.9	45.5
Chemicals.....	119.4	114.8	10.1	–30.8	2.44	2.28	13.5	8.6	5.4	4.0	–1.0	9.5
Soaps, cosmetics.....	98.0	111.9	–1.8	9.1	2.98	2.88	16.8	18.0	5.0	5.2	22.3	42.8
Metal manufacturing.....	107.2	101.8	4.3	–100.0	2.82	2.74	12.4	–	4.4	–	–6.1	–11.6
Paper, fiber, wood products.....	102.5	100.8	4.0	–39.1	2.31	2.41	12.0	8.0	5.0	3.2	–4.1	28.6
Rubber, plastic products.....	78.8	94.6	62.0	–50.4	4.09	3.54	10.4	1.9	3.0	.9	21.1	71.0
Glass, concrete, abrasives, gypsum.....	81.0	84.4	–15.1	–40.8	2.50	2.50	9.6	4.3	3.1	1.5	3.4	25.9
Motor vehicles.....	78.8	83.6	8.0	–55.4	3.37	3.28	7.6	5.1	2.6	1.7	–4.5	39.0
Pharmaceuticals.....	81.7	83.4	6.2	13.3	2.00	1.82	18.0	16.9	9.1	9.9	3.1	32.8
Metal products.....	75.7	83.4	8.8	–16.7	3.27	3.08	14.1	11.7	4.4	3.8	8.1	9.1
Industrial and farm equipment.....	76.8	82.9	12.7	–37.3	2.70	2.43	13.9	8.5	4.6	3.2	–10.3	–1.2
Publishing, printing.....	77.9	82.3	13.5	10.4	2.35	2.24	16.4	15.5	7.1	6.5	15.5	48.9
Transport equipment ²	76.7	78.2	6.2	–20.3	5.05	3.79	14.4	8.6	4.5	2.8	–6.2	11.2
Aerospace.....	70.2	76.8	16.3	–30.9	4.25	4.19	15.0	11.7	4.0	2.8	–21.9	30.7
Measuring, scientific, photo. equip.....	62.5	69.0	12.4	–7.1	2.26	2.09	15.6	12.8	6.9	5.9	–10.4	6.8
Musical instruments, toys, sporting goods.....	67.7	68.7	52.8	291.6	2.72	3.96	9.2	32.6	3.4	6.1	27.1	46.8
Electronics, appliances.....	60.4	63.0	8.8	1.1	3.12	2.86	14.3	11.7	4.4	4.5	.4	37.7
Office equipment (incl. computers).....	54.3	62.7	13.0	8.9	1.93	1.95	13.3	12.4	6.1	5.9	–18.6	28.8
Textiles, vinyl flooring.....	51.2	53.7	–3.1	4.9	1.3	2.85	7.8	6.3	2.9	2.1	15.7	54.4
Apparel.....	42.1	47.6	19.1	12.5	3.68	3.53	16.2	12.3	3.4	3.4	37.7	47.2
Tobacco.....	95.3	(NA)	10.2	(NA)	2.51	(NA)	19.5	(NA)	7.9	(NA)	6.0	(NA)

– Represents zero. NA Not available.

¹ Includes both price appreciation and dividend yield, i.e., to an investor in the company's stock.

² Excludes motor vehicles and aircraft.

Source: Time, Inc., New York, N.Y., *The Fortune Directory*, May issues. (Copyright).

No. 924. CORPORATE FUNDS—SOURCES AND USES: 1960 TO 1982

[In billions of dollars, except percent. Covers nonfarm nonfinancial corporate business. See text, p. 530]

SOURCE AND USE	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981	1982
Sources, total	48.6	91.8	102.3	156.9	210.8	252.2	315.4	346.3	333.7	352.2	319.4
Internal.....	35.4	58.5	61.8	119.7	134.2	157.4	175.7	188.8	197.5	231.1	236.1
Domestic undistributed profits.....	8.0	19.1	7.6	34.0	43.9	54.7	62.8	67.3	57.1	55.7	21.5
IVA and CCA ¹	–2.3	2.5	–4.1	–21.1	–27.5	–28.8	–36.1	–56.8	–59.7	–40.8	–14.3
Capital consumption allowances.....	26.6	32.5	51.8	93.8	103.6	114.3	129.2	147.7	169.8	193.3	210.9
Foreign earnings ²	3.0	4.5	6.5	13.0	14.3	15.1	19.7	30.6	30.3	22.8	18.1
External ³	13.2	33.3	40.5	37.2	76.6	94.9	139.7	157.5	136.2	121.1	83.3
Percent of total.....	27.2	36.3	39.6	23.7	36.3	37.6	44.3	45.5	40.8	34.4	26.1
Credit market funds.....	12.1	18.5	35.3	30.7	54.5	70.4	79.3	91.2	95.7	92.6	94.8
Securities and mortgages.....	7.5	7.6	26.3	38.7	38.2	33.9	31.9	25.9	57.5	23.1	51.5
Equity issues.....	1.4	–	5.7	9.9	10.5	2.7	–1.1	–7.8	12.9	–11.5	11.4
Bonds and mortgages ⁴	6.1	7.6	20.6	28.7	27.7	31.2	32.0	33.7	44.6	34.5	40.1
Loans and short-term paper.....	4.6	11.0	9.0	–8.0	16.3	36.5	47.4	65.3	38.2	69.6	43.3
Other.....	1.2	14.8	5.3	6.5	22.1	24.5	60.4	66.3	40.6	28.6	–11.6
Profit taxes payable.....	–2.2	2.2	–3.7	–2.4	7.5	–1.3	3.4	–	–6.7	–7.6	–10.9
Trade debt.....	3.1	12.2	7.5	6.3	10.3	12.1	49.1	54.4	33.6	14.7	–10.2
Foreign direct investments in U.S.....	.3	.4	1.5	2.6	4.3	3.7	7.9	11.9	13.7	21.3	9.4
Uses, total	41.4	82.7	98.7	150.9	201.8	237.6	294.2	347.1	317.9	314.8	271.4
Capital expenditures.....	37.5	61.0	80.0	109.7	148.3	175.1	202.2	219.8	220.5	260.9	246.2
Increase in financial assets.....	3.9	21.8	18.7	41.2	53.5	62.5	92.0	127.3	97.4	53.9	25.3
Discrepancy (sources less uses).....	7.2	9.1	3.6	6.0	9.0	14.7	21.2	–8.8	15.8	37.4	48.0

– Represents zero. ¹ Inventory valuation and capital consumption adjustment. ² Foreign branch profits, dividends, and subsidiaries earnings retained abroad. ³ Net increases in liability. ⁴ Includes industrial pollution control revenue bonds, issued by State and local governments.

Source: Board of Governors of the Federal Reserve System, *Flow of Funds Accounts*.

NO. 925. CORPORATE PROFITS, TAXES, AND DIVIDENDS: 1965 TO 1982

[In billions of dollars. Covers corporations organized for profit. Represents profits to U.S. residents, without deduction of depletion charges and exclusive of capital gains and losses; intercorporate dividends from profits of domestic corporations are eliminated; net receipts of dividends, reinvested earnings of incorporated foreign affiliates, and earnings of unincorporated foreign affiliates are added]

ITEM	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982
Profits before taxes	77.2	75.4	136.7	132.1	166.3	194.7	229.1	252.7	234.6	227.0	174.2
Less: Income tax liability ¹	30.9	34.2	51.6	50.6	63.8	72.7	83.2	87.6	84.8	82.8	59.2
Equals: Profits after taxes	46.3	41.3	85.1	81.5	102.5	122.0	145.9	165.1	149.8	144.1	115.1
Less: Net dividends ²	19.1	22.5	29.1	30.8	37.4	40.8	47.0	52.7	58.6	64.7	68.7
Equals: Undistributed profits	27.2	18.8	55.2	50.7	65.1	81.2	98.9	112.4	91.2	79.5	46.4
Capital consumption allowances ³	37.4	56.6	81.5	89.4	96.3	110.2	124.9	142.7	163.0	191.9	220.9
Profits after tax plus capital consumption allowances ³	83.7	97.9	166.6	170.9	198.8	232.2	270.7	307.8	313.8	336.0	336.0

¹ Federal, State and local. ² Disbursements to U.S. residents, measured after eliminations of intercorporate dividends.

³ Without capital consumption adjustment. Includes depreciation and accidental damages.

NO. 926. CORPORATE PROFITS: 1960 TO 1982

[In billions of dollars. Profit figures are with inventory valuation adjustment and without capital consumption adjustment]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total	49.7	76.0	68.9	105.6	96.7	120.6	151.6	178.5	205.1	209.6	191.7	203.3	165.9
Domestic industries	46.7	71.5	62.4	92.0	80.4	107.6	137.4	163.4	185.4	179.0	161.9	179.7	144.1
Financial	7.2	7.5	12.1	15.9	15.0	11.8	17.1	23.1	31.0	30.3	26.9	20.3	20.9
Nonfinancial	39.5	64.0	50.2	76.0	65.4	95.8	120.3	140.3	154.4	148.6	134.9	159.4	123.2
Manufacturing	23.6	39.3	26.6	45.5	39.0	52.6	69.2	78.3	86.9	85.6	72.9	86.7	59.0
Wholesale and retail trade	4.9	8.1	9.5	13.9	12.5	21.3	22.4	26.6	26.9	27.1	23.6	32.8	27.6
Other	11.0	16.6	14.1	16.7	14.0	21.9	28.7	35.4	40.6	36.0	36.4	39.8	36.0
Rest of the world	3.0	4.5	6.5	13.7	16.3	13.0	14.3	15.1	19.7	30.6	29.9	23.7	21.8

Source of tables 925 and 926: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-76*, and *Survey of Current Business*, July 1983.

NO. 927. CORPORATE PROFITS, BY INDUSTRY: 1960 TO 1982

[In billions of dollars. Profits are without inventory valuation and capital consumption adjustments. Minus sign (-) indicates loss. See headnote, table 925]

YEAR	All industries	Manufacturing	Wholesale, retail trade	Finance, insurance ¹	Public utilities	Services	Communication	Construction	Mining	Agriculture ²	Transportation	Rest of the world ³
BEFORE TAXES												
1960	49.8	23.9	4.9	8.3	3.6	.9	2.9	.6	.9	.1	.9	3.0
1965	77.2	39.9	8.6	8.9	4.7	1.6	4.2	1.6	.9	.2	2.2	4.5
1970	75.4	30.4	11.5	13.3	4.0	1.8	4.6	2.1	1.0	.1	.2	6.5
1973	125.6	55.5	21.8	16.6	4.0	3.5	4.1	2.4	1.7	.9	1.4	13.7
1974	136.7	59.3	25.6	15.7	3.2	3.2	3.9	2.5	4.2	.4	2.4	16.3
1975	132.1	57.8	26.2	12.4	5.5	4.4	3.8	3.0	4.1	.8	1.2	13.0
1976	166.3	75.6	27.6	15.9	7.3	5.7	5.5	3.3	4.1	.7	3.2	14.3
1977	194.7	86.1	31.8	26.4	8.8	7.4	6.5	4.7	3.3	.6	3.9	15.1
1978	229.1	96.8	37.6	35.1	9.0	8.7	8.4	5.8	2.6	1.2	4.2	30.6
1979	252.7	104.5	42.8	34.2	8.6	9.5	7.5	5.9	3.5	.6	4.2	30.6
1980	234.6	92.1	40.7	29.0	9.7	9.6	7.5	5.7	6.4	.6	3.4	29.9
1981	227.0	98.5	39.9	21.9	10.5	9.3	7.9	5.6	6.5	.5	2.6	23.7
1982	174.2	61.8	31.0	22.1	11.5	9.0	7.3	5.0	4.5	.2	(2)	21.8
AFTER TAXES												
1960	27.1	12.5	2.5	4.3	1.9	.4	1.4	.3	.7	(z)	.3	3.0
1965	46.3	23.0	5.3	4.5	2.6	1.0	2.3	1.1	.7	.1	1.3	4.5
1970	41.3	15.6	6.8	5.4	2.2	.9	2.3	1.3	.7	(z)	—	6.5
1973	76.6	31.4	14.2	6.3	2.5	2.2	2.5	1.4	1.3	.6	.6	13.7
1974	85.1	33.1	17.3	5.3	1.7	2.0	2.4	1.5	3.0	.2	1.4	16.3
1975	81.5	33.1	17.9	2.2	3.9	3.0	3.0	1.8	2.9	.5	1.3	13.0
1976	102.5	42.2	18.6	6.4	5.4	4.0	4.0	2.1	3.0	.4	2.1	14.3
1977	122.0	46.6	21.8	11.6	6.4	5.4	4.7	3.3	2.1	.3	2.8	15.1
1978	145.9	55.8	25.9	16.7	6.8	6.0	5.9	4.1	1.4	.8	2.6	19.7
1979	165.1	62.6	30.1	13.7	6.4	6.6	5.7	3.9	2.1	.8	2.6	30.6
1980	149.8	52.9	28.6	9.2	7.0	6.6	5.6	3.5	4.6	.2	1.7	29.9
1981	144.1	59.9	27.2	3.2	8.3	6.4	6.2	3.0	4.4	.2	1.7	23.7
1982	115.1	37.7	20.0	3.9	10.6	6.6	6.4	3.7	3.3	.3	.5	21.8

Z Less than \$50 million. ¹ Includes real estate. ² Includes forestry and fisheries. ³ Consists of receipts by all U.S. residents, including both corporations and persons, of earnings of unincorporated foreign affiliates, dividends from their incorporated foreign affiliates, and their share of reinvested earnings of their incorporated foreign affiliates, net of corresponding outflows.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-76*, and *Survey of Current Business*, July 1983.

NO. 928. MANUFACTURING CORPORATIONS—SALES, PROFITS, STOCKHOLDERS' EQUITY, AND DEBT:
1960 to 1982

[In billions of dollars. Prior to 1970, excludes newspapers. Data are not necessarily comparable from year to year due to changes in accounting procedures, industry classifications, sampling procedures, etc.; for detail, see source. See also *Historical Statistics, Colonial Times to 1970*, series P 93-106]

YEAR	ALL MANUFACTURING CORPS.					DURABLE GOODS INDUSTRIES					NONDURABLE GOODS INDUSTRIES				
	Sales (net)	Profits		Stockholders' equity ¹	Debt ¹	Sales (net)	Profits		Stockholders' equity ¹	Debt ¹	Sales (net)	Profits		Stockholders' equity ¹	Debt ¹
		Before taxes	After taxes				Before taxes	After taxes				Before taxes	After taxes		
1960.....	346	27.5	15.2	165	40.5	174	14.0	7.0	82	20.5	172	13.5	8.2	83	20.0
1965.....	492	46.5	27.5	212	57.9	257	26.2	14.5	105	28.4	235	20.3	13.0	106	29.6
1970.....	709	48.1	26.6	307	133.9	363	23.0	12.9	155	70.7	346	25.2	15.7	152	63.2
1972.....	850	63.2	36.5	343	149.0	436	33.6	18.4	171	77.0	414	29.6	18.0	172	72.0
1973.....	1,017	81.4	48.1	374	164.3	527	43.6	24.8	189	86.1	490	37.8	23.3	185	70.2
1974.....	1,061	92.1	58.7	395	167.4	529	41.1	24.7	196	87.1	532	51.0	34.1	199	80.3
1975.....	1,065	79.9	49.1	423	183.2	521	35.3	21.4	208	94.4	544	44.6	27.7	215	88.8
1976.....	1,203	104.9	64.5	463	187.8	590	50.7	30.8	224	91.1	614	54.3	33.7	238	96.7
1977.....	1,328	115.1	70.4	497	200.4	657	57.9	34.8	240	94.8	671	57.2	35.6	257	105.6
1978.....	1,496	132.5	81.2	541	222.4	761	69.6	41.8	263	105.8	736	63.0	39.4	276	116.6
1979.....	1,742	154.2	98.7	600	252.2	866	72.4	45.2	292	122.8	876	81.8	53.5	303	129.4
1980.....	1,897	145.4	92.4	665	292.1	883	57.2	35.6	316	142.8	1,014	88.2	56.9	349	149.3
1981.....	2,145	158.5	101.3	743	334.9	979	67.2	41.7	350	159.4	1,165	91.3	59.6	393	175.5
1982.....	2,039	108.3	71.0	770	370.6	913	34.7	21.7	356	177.4	1,126	73.6	49.4	415	193.2

¹ Annual data are average equity or debt for the year (using four end-of-quarter figures).

Source: Through 1981, U.S. Federal Trade Commission, thereafter, U.S. Bureau of the Census, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*. In U.S. Council of Economic Advisers, *Economic Report of the President*, annual.

NO. 929. MANUFACTURING CORPORATIONS—PROFITS, STOCKHOLDERS' EQUITY, SALES, AND DEBT
RATIOS: 1975 TO 1982

[Averages of quarterly figures at annual rates. Based on sample; see source for discussion of methodology. Minus (—) sign indicates loss. See headline, table 928]

INDUSTRY GROUP	RATIOS OF PROFITS TO STOCKHOLDERS' EQUITY (percent)				PROFITS PER DOLLAR OF SALES (cents)				RATIO OF STOCKHOLDERS' EQUITY TO DEBT			
	1975	1980	1981	1982	1975	1980	1981	1982	1975	1980	1981	1982
All manufacturing corporations ¹	11.6	13.9	13.6	9.3	4.6	4.9	4.7	3.5	2.3	2.3	2.2	2.1
Durable goods industries.....	10.3	11.2	11.9	6.1	4.1	4.0	4.2	2.4	2.2	2.2	2.2	2.0
Stone, clay, and glass products.....	6.3	10.8	8.8	2.3	3.4	4.2	3.5	.8	2.1	1.9	1.9	1.6
Primary metal industries.....	8.6	11.7	11.6	-9.5	4.4	4.1	4.0	-4.2	2.2	1.7	1.7	1.3
Iron and steel.....	10.9	9.0	11.6	-15.4	5.0	2.9	3.6	-6.2	2.4	1.7	1.8	1.2
Nonferrous metals.....	5.0	15.6	11.6	-1.8	3.1	5.9	4.8	-9.9	1.8	1.8	1.7	1.5
Fabricated metal products.....	13.2	13.9	13.3	7.1	4.2	4.2	4.0	2.3	2.0	2.1	2.2	2.1
Machinery, exc. electrical.....	13.7	15.0	14.6	8.6	6.4	6.5	6.4	4.3	2.4	2.2	2.2	2.1
Electrical and electronic equipment.....	9.0	15.1	14.4	11.4	3.2	5.0	5.0	4.2	2.2	2.6	2.6	2.6
Transportation equipment.....	7.5	-6	5.8	5.6	2.4	-3	1.6	1.6	2.4	2.7	2.4	2.2
Motor vehicles and equipment.....	6.2	-9.3	-7	2.0	2.2	-3.4	-3	.5	3.6	3.4	3.0	2.7
Aircraft, guided missiles and parts.....	11.0	16.0	16.0	12.0	2.9	4.3	4.4	3.3	1.6	2.8	2.7	2.5
Instruments and related products.....	13.5	17.5	16.9	14.3	7.6	9.3	9.0	8.0	3.3	4.3	4.5	4.3
Nondurable goods industries.....	12.8	16.4	15.2	11.9	5.1	5.6	5.1	4.4	2.4	2.3	2.2	2.1
Food and kindred products.....	14.4	14.7	14.0	13.0	3.2	3.4	3.2	3.1	1.7	1.9	1.8	1.8
Tobacco manufactures.....	15.9	19.8	19.8	18.9	9.2	11.7	11.5	11.4	1.5	1.8	1.7	1.6
Textile mill products.....	4.2	8.5	9.4	6.9	1.2	2.2	2.4	2.0	1.9	2.0	2.0	2.0
Paper and allied products.....	12.6	12.1	12.0	5.4	5.6	5.1	5.0	2.4	1.8	2.0	2.0	1.8
Printing and publishing.....	12.8	16.4	14.9	13.5	4.6	5.5	5.0	4.5	2.7	2.1	2.1	2.0
Chemicals and allied products.....	15.2	15.4	14.8	11.1	7.6	7.1	6.9	5.5	2.3	2.2	2.2	2.0
Industrial.....	13.2	11.9	13.2	6.5	6.9	5.4	5.8	3.3	2.0	1.9	1.9	1.8
Drugs.....	17.8	19.9	16.9	19.6	12.2	13.2	10.9	13.1	3.4	3.0	2.8	2.9
Petroleum and coal products.....	12.5	20.0	17.2	13.2	7.6	7.7	6.3	5.5	4.4	3.4	3.0	2.8
Rubber and misc. plastics products.....	8.0	6.7	12.0	8.1	3.0	2.0	3.5	2.5	1.8	1.6	1.8	1.8

¹ Includes other industries not shown separately.

Source: Through 1981, U.S. Federal Trade Commission, thereafter, U.S. Bureau of the Census, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*. In U.S. Council of Economic Advisers, *Economic Report of the President*, annual.

No. 930. GROSS PRODUCT OF U.S. MULTINATIONAL COMPANIES (MNC's), BY INDUSTRY OF U.S.

PARENT: 1977

[In billions of dollars, except percent. Gross product is an economic accounting measure of production. It measures U.S. parent companies' contribution to U.S. gross domestic product (GDP) and their majority-owned foreign affiliate (MOFA's) contribution to foreign GDP. The gross product estimates are based on data from the Bureau of Economic Analysis' 1977 benchmark survey of U.S. direct investment abroad and cover nonbank U.S. parent companies that had at least one nonbank MOFA. (MOFA's are foreign affiliates that were owned by more than 50 percent of all U.S. parents combined and that had assets, sales, or net income of more than \$3 million in 1977.) Detailed data and the methodology of the benchmark survey are published in U.S. Bureau of Economic Analysis, *U.S. Direct Investment Abroad*, 1977, April 1981]

ITEM	U.S. MNC'S WORLDWIDE			PERCENT DISTRIBUTION	
	Total	U.S. parents	MOFA's	U.S. parents	MOFA's
All industries.....	651.7	490.5	161.1	75	25
Mining	2.4	2.0	.4	82	18
Metal mining.....	.9	.7	.2	80	20
Coal and other nonmetallic minerals.....	1.6	1.3	.3	83	17
Petroleum	114.1	52.1	62.0	46	54
Oil and gas extraction.....	4.4	3.5	.8	81	19
Petroleum and coal products.....	101.1	43.2	57.9	43	57
Petroleum wholesale trade.....	5.1	2.2	2.9	43	57
Other.....	3.4	3.1	.3	90	10
Manufacturing.....	382.3	301.3	81.0	79	21
Food and kindred products.....	27.9	21.8	6.1	78	22
Chemicals and allied products.....	51.5	39.1	12.4	76	24
Primary and fabricated metals.....	40.2	35.4	4.8	88	12
Primary metals.....	27.3	24.8	2.5	91	9
Fabricated.....	12.9	10.6	2.3	82	18
Machinery, except electrical.....	60.4	42.4	18.0	70	30
Office and computing machines.....	30.3	17.6	12.6	58	42
Construction and related machinery.....	16.2	8.4	7.8	50	50
Other.....	16.2	13.5	2.7	83	17
Electric and electronic equipment.....	32.1	26.7	5.4	83	17
Transportation equipment.....	88.5	71.3	17.2	81	19
Other manufacturing.....	81.6	64.6	17.0	79	21
Trade.....	35.3	31.3	4.0	89	11
Wholesale.....	6.5	5.1	1.5	77	23
Retail.....	28.7	26.3	2.5	91	9
Finance (except banking), insurance, and real estate.....	29.2	22.8	6.4	78	22
Other industries.....	88.4	81.1	7.3	92	8
Transportation.....	18.8	17.3	1.5	92	8
Services.....	11.7	10.0	1.7	85	15

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, February, 1983.

No. 931. CAPITAL EXPENDITURES BY MAJORITY-OWNED FOREIGN AFFILIATES OF U.S. MULTINATIONAL COMPANIES: 1970 TO 1982

[Represents expenditures to acquire, add to, or improve property, plant, and equipment. Data are universe estimates based on Bureau of Economic Analysis' semiannual sample survey. The latest survey, taken in Dec. 1982, covered over 8,500 majority-owned foreign affiliates. See *Survey of Current Business*, March 1983]

INDUSTRY AND AREA OR COUNTRY	EXPENDITURES (bil. dol.)							PERCENT OF TOTAL			
	1970	1975	1978	1979	1980	1981	1982, prel.	1970	1975	1980	1982, prel.
Total ¹	14.1	26.8	26.1	32.6	42.4	43.7	41.6	100.0	100.0	100.0	100.0
Mining and smelting	1.2	1.2	.4	.7	1.3	1.3	.8	8.5	4.5	3.1	1.9
Petroleum.....	4.0	8.9	9.5	11.0	14.8	15.8	17.7	28.4	33.2	34.9	42.5
Manufacturing ¹	6.5	11.3	12.0	15.4	19.5	19.2	16.6	46.1	42.2	46.0	39.9
Food products.....	.4	.7	.9	1.2	1.5	1.4	1.3	2.8	2.6	3.5	3.1
Chemicals and allied products.....	1.2	2.5	1.9	2.6	3.0	3.0	2.9	8.5	9.3	7.1	7.0
Machinery (except electrical).....	1.6	2.8	3.6	4.7	5.6	5.1	4.2	11.3	10.4	13.2	10.1
Electrical machinery.....	.6	.9	.9	1.1	1.4	1.2	1.2	4.3	3.4	3.3	2.9
Transportation equipment.....	1.0	1.4	1.9	2.9	4.4	5.2	3.8	7.1	5.2	10.4	9.1
Trade.....	1.0	2.4	2.2	3.1	3.8	4.3	3.6	7.1	9.0	9.0	8.7
By area of affiliate:											
Developed countries.....	10.1	18.8	19.8	24.8	31.9	31.3	28.8	71.6	70.1	75.2	69.2
Canada.....	3.0	5.0	5.4	6.5	8.3	8.1	7.3	21.3	18.7	19.6	17.5
Europe.....	5.7	11.7	12.6	16.4	20.8	20.1	18.4	40.4	43.7	49.1	44.2
European Communities ²	5.1	9.9	10.9	14.0	17.8	16.2	14.7	36.2	36.9	42.0	35.3
Other Europe.....	.6	1.8	1.7	2.4	3.0	3.9	3.7	4.3	6.7	7.1	8.9
Japan.....	.5	.8	.6	.6	.9	.8	.9	3.5	3.0	2.1	2.2
Australia, New Zealand, South Africa.....	.9	1.2	1.2	1.3	1.8	2.2	2.2	6.4	4.5	4.2	5.3
Developing countries.....	3.3	6.4	5.5	6.6	9.0	11.1	11.3	23.4	23.9	21.2	27.2
Latin America.....	2.0	3.1	2.5	3.2	4.6	5.7	5.2	14.2	11.6	10.8	12.5
Africa (excl. South Africa).....	.5	.7	.8	.9	1.3	1.6	1.9	3.5	2.6	3.1	4.6
Middle East.....	.2	1.3	1.1	.8	.7	.5	.7	1.4	4.9	1.7	1.7
Other Asia and Pacific.....	.6	1.3	1.1	1.7	2.5	3.3	3.5	4.3	4.9	5.9	8.4
International and unallocated.....	.7	1.7	.8	1.2	1.5	1.4	1.5	5.0	6.3	3.5	3.6

¹ Includes other industries not shown separately.
the Netherlands, and the United Kingdom.

² Includes Belgium, Denmark, France, Germany, Ireland, Italy, Luxembourg,

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, March issues.

NO. 932. FOREIGN-OWNED U.S. FIRMS, BY PERCENT OF FOREIGN OWNERSHIP, INDUSTRY, AND COUNTRY: 1981

[Covers only firms operating at more than one U.S. location and having 50 or more employees. A firm was defined as foreign-owned if ten percent or more of its equity was owned by a foreign entity. Domicile country refers to location of the home office of the owning entity]

ITEM	Firms ¹	Estab-lish-ments ¹	Em-ploy-ment ² (1,000)	Annual payroll (mil. dol.)	DOMICILE COUNTRY	Firms ¹	Estab-lish-ments ¹	Em-ploy-ment ² (1,000)	Annual payroll (mil. dol.)
Total ³	1,692	46,790	2,347.8	44,567	All countries.....	1,692	46,750	2,347.8	44,567
Foreign ownership:					Australia ⁴	26	364	24.4	504
10-49 percent.....	238	11,712	576.6	12,673	Bahamas.....	11	202	7.4	106
50-99 percent.....	318	11,096	527.7	9,803	Belgium ⁵	33	639	40.9	763
100 percent.....	1,105	23,871	1,238.8	21,951	Bermuda.....	18	1,135	40.5	752
Industry:					Canada.....	277	7,728	430.3	9,016
Agriculture.....	51	256	9.6	133	France.....	119	2,900	164.3	3,508
Mining.....	95	849	102.2	2,922	Germany, Fed. Rep. of.....	173	5,827	331.0	6,004
Construction.....	76	414	44.7	1,254	Great Britain.....	275	9,963	467.6	7,885
Manufacturing.....	837	5,701	1,135.6	23,647	Hong Kong.....	18	1,863	19.8	306
Transportation, communication, public utilities.....	202	1,912	66.3	1,516	Japan.....	231	2,123	111.5	2,271
Wholesale trade.....	925	9,213	214.9	5,071	Netherlands.....	111	6,946	309.5	6,299
Retail trade.....	225	18,322	464.1	4,768	Neth. Antilles.....	42	2,010	98.7	1,688
Finance, insurance, real estate.....	312	4,987	166.9	3,422	Panama.....	18	170	15.2	271
Services.....	353	5,136	143.7	1,835	Sweden.....	47	591	41.5	760
					Switzerland.....	132	2,399	151.7	2,817
					Other.....	161	1,910	93.5	1,817

¹ For definition, see text, p. 529. ² For week including March 12. ³ Includes percent not specified and industries not shown separately. ⁴ Includes New Zealand. ⁵ Includes Luxembourg.

Source: U.S. Bureau of the Census, *Selected Characteristics of Foreign-Owned U.S. Firms: 1981*.

NO. 933. CONSUMER COOPERATIVES AND FARMER COOPERATIVES SELLING CONSUMER GOODS, BY TYPE OF ASSOCIATION: 1965 TO 1981

[Members in thousands; business in millions of dollars. Business refers to loans outstanding]

TYPE OF ASSOCIATION	1965			1970			1981		
	Associ-ations	Mem-bers	Busi-ness	Associ-ations	Mem-bers	Busi-ness	Associ-ations	Mem-bers	Busi-ness
Credit unions ¹	22,064	16,756	8,098	23,656	22,819	14,106	20,759	44,980	50,478
Electric power cooperatives ²	885	4,964	781	875	5,789	1,195	869	9,028	7,440
Rural telephone cooperatives ³	219	485	48	235	609	86	254	991	391
Independent prepaid and self-insured health plans ⁴	569	8,684	608	⁵ 482	⁵ 12,204	1,068	(NA)	⁶ 29,107	⁶ 9,353
Community consumer	43	3,400	216	⁵ 40	⁵ 4,691	445	(NA)	⁶ 7,962	⁶ 2,519
Labor and management	507	5,068	366	⁵ 418	⁵ 5,834	545	(NA)	⁶ 18,457	⁶ 5,810
Health professionals (both profit making and non-profit plans)	19	(NA)	26	⁵ 24	⁵ 1,679	78	(NA)	⁶ 2,688	⁶ 1,024
Farmer cooperatives selling producer and consumer goods ⁷	6,763	(NA)	2,910	6,209	(NA)	3,871	5,009	(NA)	17,059
Petroleum products ⁸	2,773	(NA)	643	2,774	(NA)	862	2,911	(NA)	5,846
Meats and groceries.....	775	(NA)	60	717	(NA)	83	482	(NA)	163
Miscellaneous ⁹	4,800+	(NA)	356	4,800+	(NA)	527	4,300+	(NA)	1,729

NA Not available. ¹ Source: 1965, U.S. Social Security Administration; beginning 1970, National Credit Union Administration, *Annual Report of the National Credit Union Administration and State Chartered Credit Unions*. ² Source: U.S. Rural Electrification Administration, *Statistical Report—Rural Electric Borrowers*. Electric distribution cooperatives currently borrowing from REA, average number of consumers served, and total revenues. ³ Source: U.S. Rural Electrification Administration, *Statistical Report—Rural Telephone Borrowers*. Cooperatives currently borrowing from REA, number of subscribers at end of year, annual revenues.

⁴ Source: U.S. Health Care Financing Administration, *Health Care Financing Review*, September 1982, and unpublished data. Estimated enrollees and annual subscription income of plans. Enrollment is for most frequent type of benefit (surgical services). 1981, preliminary. ⁵ 1968 data. ⁶ 1979 data. ⁷ Data for fiscal years ending June 30 or earlier in years shown. 1981, calendar year. Since most cooperatives do more than one type of business, totals are less than would be obtained by adding number of cooperatives handling individual items or performing individual services. Major products sold are feed, seed, fertilizer, pesticides, and petroleum. See table 1175 for other items sold by farmer cooperatives. ⁸ Sales include products for farming, for both farm and non-farm home heating, and automobile and truck uses. ⁹ Includes hardware, building supplies, lawn and garden items, electrical goods, and other supplies used by both farmers and nonfarmers.

Source: Except as noted, U.S. Dept. of Agriculture, Agricultural Cooperative Service, unpublished data.

NO. 934. PATENTS AND TRADEMARKS: 1956 TO 1982

[In thousands. Covers patents issued to citizens of the United States and residents of foreign countries. For information on copyrights, see table 965. See also *Historical Statistics, Colonial Times to 1970*, series W 96-108]

ITEM	1956-1960	1961-1965	1966-1970	1971-1975	1976-1980	1976	1977	1978	1979	1980	1981	1982
Patent applications filed	410.4	463.2	504.6	541.4	550.1	110.0	109.0	109.3	108.9	113.0	114.5	118.4
Inventions.....	384.8	436.1	476.2	510.4	509.0	102.3	100.9	100.9	100.5	104.3	106.4	109.6
Designs.....	23.9	25.3	26.3	28.6	37.2	7.1	7.3	7.5	7.5	7.8	7.4	8.2
Botanical plants.....	.6	.6	.6	.7	1.0	.2	.2	.2	.2	.2	.2	.2
Reissues.....	1.2	1.2	1.5	1.7	2.9	.4	.6	.7	.6	.6	.5	.4
Patents issued	251.9	275.4	342.9	396.7	334.3	75.4	69.8	70.5	52.4	66.2	71.0	63.3
Inventions.....	237.5	260.0	325.1	375.5	312.3	70.2	65.3	66.1	48.9	61.8	65.8	57.9
Individuals.....	76.6	69.9	73.4	87.0	65.0	14.1	14.0	14.3	9.3	13.3	14.1	11.9
Corporations: U.S.....	133.9	152.5	190.6	192.9	150.4	34.4	31.5	31.3	23.8	29.4	29.5	25.8
Foreign ¹	21.0	31.0	52.8	86.0	90.4	19.9	18.2	19.3	14.8	18.2	21.0	19.2
U.S. Government.....	5.9	6.5	8.4	9.6	6.5	1.8	1.5	1.2	.9	1.0	1.1	1.0
Designs.....	13.0	13.9	16.3	18.7	19.4	4.6	3.9	3.9	3.1	3.9	4.7	4.9
Botanical plants.....	.6	.6	.4	.8	.8	.2	.2	.2	.1	.1	.2	.2
Reissues.....	.8	1.0	1.1	1.6	1.8	.4	.4	.4	.3	.3	.4	.3
Published applications ²	-	-	.6	.8	.5	.1	.1	.1	(2)	.1	(2)	(2)
Foreign country residents ³	36.5	48.3	76.0	119.3	118.0	26.1	23.9	25.1	18.2	24.7	26.5	24.0
Certificates of trademarks issued	108.2	106.6	128.5	158.3	150.7	33.1	31.9	35.1	25.9	24.7	48.6	48.4
Trademarks.....	90.7	91.9	104.2	129.4	121.2	26.3	25.9	29.6	20.5	18.9	42.7	42.4
Trademark renewals.....	17.5	14.7	24.3	28.9	29.5	6.8	6.1	5.5	5.4	5.9	5.9	6.0

- Represents zero. Z Less than 50. ¹ Includes patents to foreign governments. ² Abstracts of technical disclosure of patent published at request of applicant or owner. The current practice, called "Defensive Publications," began in Nov. 1968. ³ Includes patent inventions and a small number of patents for designs and botanical plants.

Source: U.S. Patent and Trademark Office. Fiscal-year figures are published in the *Commissioner of Patents and Trademarks Annual Report*.

NO. 935. U.S. NET RECEIPTS OF FEES AND ROYALTIES FROM FOREIGN AFFILIATES, BY INDUSTRY: 1970 TO 1982

[In millions of dollars. Represents affiliated parties only]

ITEM	All industries	Mining and smelting	Petroleum	MANUFACTURING						Other industries
				Total	Chemicals and allied products	Metals, primary and fabricated	Machinery	Transportation equipment	Other	
Fees and royalties:										
1970.....	1,758	47	185	944	214	48	336	90	257	582
1980.....	5,780	56	239	4,068	1,010	213	1,605	350	890	1,417
1981.....	5,813	58	224	3,947	1,003	160	1,511	332	941	1,584
1982.....	5,572	50	351	3,652	959	141	1,418	288	846	1,519
Royalties and license fees:										
1970.....	751	2	7	609	147	16	310	21	115	131
1980.....	3,693	-	24	3,014	688	134	1,561	68	562	655
1981.....	3,658	-	34	2,973	681	84	1,551	70	587	651
1982.....	3,172	(z)	-27	2,638	653	70	1,351	49	516	561
Management and other fees:										
1970.....	1,007	45	178	335	67	32	25	69	142	451
1980.....	2,087	56	214	1,054	323	79	44	281	328	763
1981.....	2,154	58	190	973	322	76	-40	262	353	933
1982.....	2,400	50	378	1,013	306	71	66	239	331	959

- Represents zero. Z Less than \$500,000.

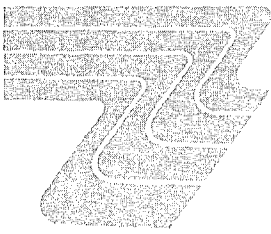
Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, January 1980 and August 1983.

NO. 936. CORPORATE PHILANTHROPY AS A PERCENT OF PRETAX NET INCOME: 1979 TO 1981

[Based on sample of 2,500 large industrial and non-industrial companies]

INDUSTRY CLASS	1979	1980	1981	INDUSTRY CLASS	1979	1980	1981
All firms, avg.....	.50	.54	.63	Manufacturing firms, avg.—Con.			
Manufacturing firms, avg.....	.48	.52	.63	Stone, clay and glass products.....	.80	.95	1.35
Chemicals.....	.56	.62	.73	Textiles.....	.96	1.29	.99
Electrical machinery and equipment.....	.53	.58	.64	Transportation equipment.....	.65	.79	.86
Fabricated metal products.....	.71	.90	1.23	Nonmanufacturing firms, avg.....	.56	.60	.63
Food, beverage and tobacco.....	.65	.64	.71	Banking.....	.80	.92	.97
Machinery, nonelectrical.....	.61	.80	.86	Business services.....	.32	.62	.61
Mining.....	.47	.55	.79	Engineering and construction.....	.60	.47	.71
Paper and like products.....	.57	1.09	1.08	Finance.....	.69	.67	.66
Petroleum and gas.....	.25	.29	.42	Insurance.....	.56	.74	.96
Pharmaceuticals.....	.82	.99	.82	Merchandising.....	1.50	1.67	1.50
Primary metal industries.....	.97	.95	.88	Telecommunications.....	.38	.41	.45
Printing and publishing.....	1.14	1.65	.92	Transportation.....	.71	.64	.62
Rubber, misc. plastic products.....	1.15	1.42	.49	Utilities.....	.31	.29	.28

Source: Troy, Kathryn, The Conference Board, New York, N.Y. *Annual Survey of Corporate Contributions* (1981-83) (Copyright).



Communications

This section presents statistics on the usage, finances, and operations of the Postal Service and of the various communications media: Telephone, telegraph, radio, television, newspapers and periodicals, and books. Expenditures data for advertising in the media are also included.

Postal Service.—The Postal Service provides mail processing and delivery services within the United States. The Postal Reorganization Act of 1970 created the Postal Service, effective July 1971, as an independent establishment of the Federal Executive Branch; it also placed restrictions on the private delivery of mail.

"Revenue and cost analysis" is the term used by the Postal Service to describe its system of attributing revenues and costs to classes of mail and service. This system draws primarily upon probability sampling techniques to develop estimates of revenues, volumes, and weights, as well as costs by class of mail and special service. The costs attributed to classes of mail and special services are primarily incremental costs which vary in response to changes in volume; they account for roughly 60 percent of the total costs of the Postal Service. The balance represents "institutional costs" which includes funds for research and development, portions of personnel and office supplies, etc. Statistics on revenues, volume of mail, and distribution of expenditures are presented in the Postal Service's annual report, *Revenue and Cost Analysis*, and its *Annual Report of the Postmaster General*.

Communication media.—The Federal Communications Commission (FCC), established in 1934, regulates wire and radio communications and licenses radio and television stations. Only the largest carriers and controlling companies file annual or monthly financial reports. Jurisdiction of the FCC applies to domestic and overseas telegraph carriers and to the Communications Satellite Corporation (Comsat), but not to a large number of telephone carriers which are engaged in intrastate or foreign service. The gross operating revenues of the telephone carriers reporting annually to the FCC, however, are estimated to cover over 90 percent of the revenues of all U.S. telephone companies.

Reports filed by the broadcasting industry cover substantially all radio and television stations operating in the United States and its outlying areas. Statistics covering the private radio services represent the largest and most diverse group of licensees regulated by the FCC. These services primarily provide two-way radio communication for emergency and business purposes in the aviation, marine, land transportation, and other industries; police, fire, and other public safety programs; and amateur and personal operations. Principal sources of wire, radio, and television data are the FCC's *Annual Report*, its annual *Statistics of Communications Common Carriers*, and its annual releases of financial data reported by radio and television stations and networks. (The latter, however, were discontinued after 1980 data became available. See tables 950 and 951.)

Statistics on the printed media are available from the U.S. Bureau of the Census, as well as from various private agencies. The censuses of manufactures (conducted by the Census Bureau every five years, for the years ending in "2" and "7") provide statistics on the number and circulation of newspapers and periodicals and on sales of books and pamphlets. Editor & Publisher Co., Inc., New York, presents annual data on the number and circulation of daily and Sunday newspapers in its *International Yearbook*. Monthly data on new books and new editions appear in *Publishers Weekly*, issued by R. R. Bowker Company, New York.

Advertising.—The statistics on advertising expenditures are compiled primarily by private organizations. McCann-Erickson, Inc., which compiles certain of the data shown (see tables 966-968), defines national advertising as the advertising done for companies whose products are distributed nationally, and for which national media rates are paid. Local advertising is defined as the advertising done for companies which market their products locally and which may pay special "local" media rates. Spot advertising is considered time bought by a national advertiser on a selective market basis. Monthly index figures of advertising in certain media are also published periodically by McCann-Erickson in *Advertising Age*.

The Broadcast Advertisers Reports (see tables 969-971) distinguishes between spot and local advertising primarily on the basis of the type of advertiser to whom the time is sold, rather than how and by whom it is sold. In general, time purchased on behalf of retail or service establishments in the market is considered local, even though the establishments may be part of a national or regional chain. That is, spot advertising promotes a product, while local advertising promotes a given establishment. Network advertising, mutually exclusive of spot and local, is broadcast through the network system.

Statistical reliability.—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

No. 937. U.S. POSTAL SERVICE—SUMMARY: 1900 TO 1982

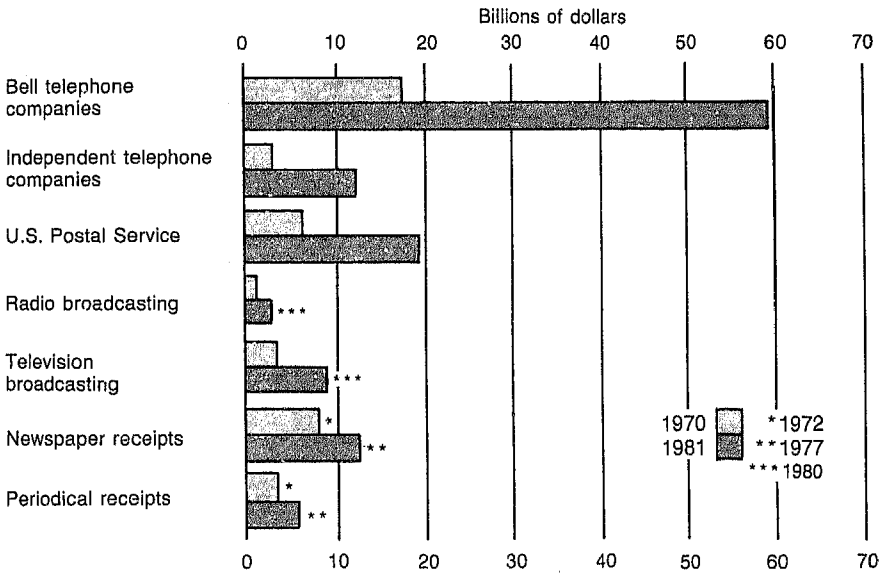
[For years ending June 30 except, beginning 1977, ending Sept. 30. Includes Puerto Rico and all outlying areas except Canal Zone. See text, p. 553. See also *Historical Statistics, Colonial Times to 1970*, series R 163-171]

YEAR	Number of post offices	FINANCES ¹			Revenue per capita ³ (dol.)	Sales of stamps and stamped paper (mil. dol.)	Postage paid under permit and meter (mil. dol.)	Money orders issued, total (mil. dol.)	PIECES OF MAIL HANDLED (est.)			
		Revenues (mil. dol.)	Expenditures ² (mil. dol.)	Deficit (mil. dol.)					Total ⁴ (bil.)	First-class ⁵		Second-class ⁶ (bil.)
										Number (bil.)	Per cent	
1900.....	76,688	102	108	5	1.34	94	(⁷)	256	7.1	(NA)	(NA)	(NA)
1910.....	59,580	224	230	6	2.43	202	4	638	14.9	(NA)	(NA)	(NA)
1920.....	52,641	437	454	17	4.11	380	13	1,356	(NA)	(NA)	(NA)	(NA)
1930.....	49,063	705	804	98	5.75	575	74	1,767	27.9	16.9	60.6	5.0
1940.....	44,024	767	808	41	5.84	522	177	2,108	27.7	15.2	54.9	4.8
1950.....	41,464	1,677	2,223	545	11.14	862	678	* 5,138	45.1	24.5	54.3	6.3
1955.....	38,316	2,349	2,712	363	14.33	999	1,136	5,883	55.2	28.7	52.0	6.7
1960.....	35,238	3,277	3,674	597	18.27	1,245	1,699	5,058	63.7	33.2	52.1	7.5
1965.....	33,624	4,483	5,276	793	23.17	1,528	2,529	4,540	71.9	38.1	53.0	8.6
1970.....	32,002	7,702	7,667	165	31.05	1,936	3,883	4,709	84.9	48.6	57.2	9.4
1971.....	31,947	8,751	8,955	204	32.24	1,999	4,126	4,728	87.0	50.0	57.5	9.6
1972.....	31,686	9,347	9,522	175	37.89	2,371	4,861	4,731	87.2	48.9	58.1	9.5
1973.....	31,385	9,913	9,926	13	39.77	2,399	5,141	4,700	89.7	51.0	56.9	9.0
1974.....	31,000	10,857	11,295	438	42.85	2,504	5,623	5,194	90.1	51.6	57.3	8.8
1975.....	30,754	11,580	12,578	988	47.08	2,819	6,241	5,856	89.3	51.4	57.6	9.1
1976.....	30,521	12,747	13,923	1,176	52.21	3,155	6,883	6,243	89.8	52.1	58.0	8.9
1976, TO ⁸	30,521	3,402	3,387	¹⁰ 15	14.11	815	1,895	1,639	21.5	12.5	58.1	2.1
1977.....	30,521	14,622	15,310	688	60.18	3,658	7,951	5,636	92.2	63.7	58.2	8.7
1978.....	30,518	15,841	16,220	379	64.91	3,943	8,668	5,587	98.9	56.0	57.8	8.7
1979.....	30,449	17,999	17,529	¹⁰ 470	73.37	4,382	10,062	5,631	99.8	58.0	58.1	8.4
1980.....	30,326	19,106	19,412	306	77.32	4,287	10,828	6,112	106.3	60.3	56.7	8.4
1981.....	30,242	20,781	21,369	588	83.62	4,625	11,891	6,692	110.1	61.5	55.8	10.0
1982.....	30,155	23,628	22,826	¹⁰ 802	97.83	5,559	13,984	6,920	114.0	62.3	54.5	9.5

NA Not available. ¹ After allowance for reimbursements, embossed envelope purchases, indemnity claims, and miscellaneous revenue and expenditure offsets. Through 1950, includes some payments and receipts applicable to services in prior years; beginning 1955, expenditures are shown in year in which obligation was incurred, and revenues in year which gave rise to the earnings, whether collected or accrued. In 1954, the Postal Service began receiving reimbursement for penalty and franked mail, and discontinued payment of subsidies to airlines. Revenues for 1960 include \$37.4 million reimbursement from the Treasury General Fund for statutory public services. These and other changes affect comparability of figures. See also footnote 3, table 938. ² Includes capital expenditures for plant and equipment and cost of materials and supplies, but no provision for depreciation. Also includes costs of certain services rendered to other agencies without reimbursement but excludes costs of certain services rendered to the Postal Service by other agencies. Beginning 1955, represents obligations incurred; beginning 1965, represents accrued expenses, including depreciation on fixed assets, reimbursable work for others, and expenses paid by certain other agencies without reimbursement by the Postal Service. ³ Operating revenue only; based on Bureau of the Census estimated total population as of Jan. 1, including Armed Forces abroad. ⁴ Includes other classes of mail not shown separately. See table 940. ⁵ Items mailed at 1st-class rates and weighing 12 ounces or less. Includes items wholly or partially in writing or typewriting, cards or bills and statements of account, items closed against postal inspection, etc. ⁶ Includes mail paid at other than bulk rates. ⁷ Service not inaugurated. ⁸ Includes postal notes issued under act of Congress. ⁹ Transition quarter, July-Sept. ¹⁰ Net income.

Source: U.S. Postal Service, *Annual Report of the Postmaster General*.

Figure 19.1

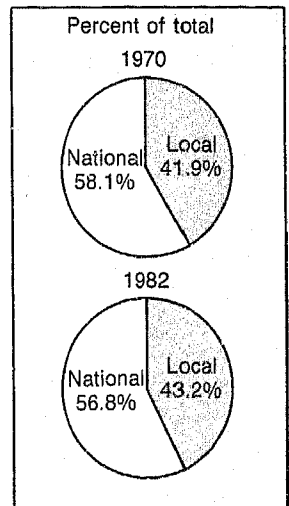
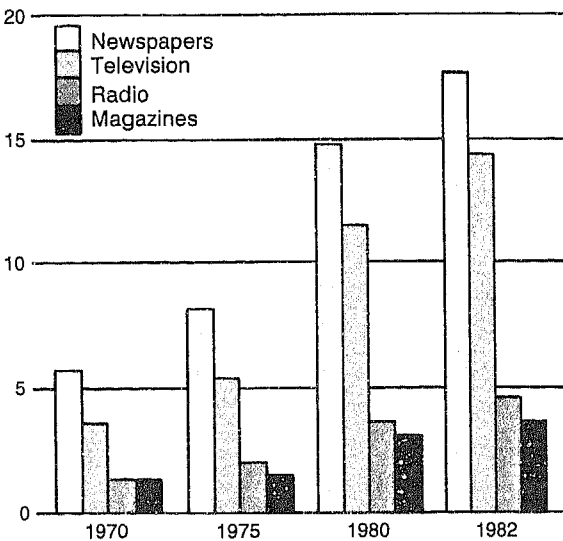
Operating Revenues of Selected Media: 1970 to 1981

Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 938, 945, 946, 950, and 951.

Figure 19.2

Advertising Expenditures by Selected Media: 1970 to 1982

Billions of dollars



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 968.

NO. 938. U.S. POSTAL SERVICE REVENUES: 1960 TO 1982

[In millions of dollars, except percent. For years ending June 30 except, beginning 1977, ending Sept. 30. Includes Puerto Rico and all outlying areas except Canal Zone. See text, p. 553]

ITEM	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981	1982
Total revenue ¹	2,377	2,483	7,702	11,590	12,747	14,622	15,841	17,999	19,106	20,781	23,628
SOURCE											
Operating postal revenue ²	3,270	4,433	6,347	10,015	11,199	12,998	14,133	16,106	17,143	19,133	22,800
Stamps, postal cards, etc.....	1,245	1,528	1,936	2,819	3,155	3,658	3,943	4,382	4,287	4,625	5,559
Second-class postage paid in money (pound rates) ³	86	131	192	284	319	427	551	755	881	911	996
Other postage paid under permit and meter.....	1,699	2,529	3,883	6,241	6,883	7,951	8,668	10,062	10,828	11,891	13,984
Box rents.....	29	34	44	67	103	109	124	153	160	168	168
Miscellaneous.....	⁴ 147	154	236	556	675	748	758	663	892	1,427	1,771
Money-order revenues.....	64	57	56	53	63	105	89	91	95	111	122
Government appropriations.....	-	-	1,355	1,533	1,645	1,712	1,722	1,720	1,610	1,275	707
Percent of total revenue.....	-	-	17.6	13.2	12.9	11.7	10.9	9.6	8.4	6.1	3.0
Investment income, net.....	-	-	-	37	⁵ -97	⁶ -88	⁶ -14	173	353	373	321
MAIL AND SERVICE											
First-class mail ⁷	1,510	2,193	3,291	5,798	6,734	7,831	8,575	9,733	10,146	11,457	13,747
Priority mail ⁸	-	-	282	411	411	468	497	561	612	758	823
Second-class publishers' mail ⁹	81	119	155	236	267	363	472	644	618	10,885	¹⁰ 961
Controlled circulation publication ¹¹	8	15	35	41	41	53	67	95	246	(10)	(10)
Third-class mail ¹²	441	650	827	1,348	1,522	1,748	1,987	2,216	2,412	2,643	3,303
Bulk rate.....	(NA)	(NA)	(NA)	1,167	1,317	1,508	1,745	1,967	2,168	2,405	3,092
Single piece rate and fees.....	(NA)	(NA)	(NA)	181	205	240	242	249	244	236	211
Fourth-class mail ¹³	507	702	778	718	680	769	673	747	805	786	788
Zone rate mail (parcels, catalogs, etc.).....	(NA)	(NA)	(NA)	577	508	594	460	484	500	499	507
Special fourth-class rate.....	(NA)	(NA)	(NA)	130	160	148	187	237	272	251	237
Library rate and fees.....	(NA)	(NA)	(NA)	11	12	28	27	27	33	36	44
Government mail ¹⁴	86	124	199	484	577	611	626	678	745	761	918
International mail ¹⁵	102	152	270	390	447	493	499	550	596	735	882
Special services.....	184	179	236	251	257	417	439	506	518	823	823
Other ¹⁶	258	¹⁷ 349	1,629	1,913	1,811	1,859	2,005	2,269	2,404	1,933	1,383

- Represents zero. NA Not available. ¹ Net revenue after refunds of postage. Beginning 1965, includes operating reimbursements. ² Includes small amounts for Postal Savings System, 1960 and 1965, and reimbursement by U.S. Congress in 1965. ³ The U.S. Postal Service was established July 1, 1971. Revenues prior to that date are those of the Post Office Department. Revenues for 1970 have been restated to be consistent with subsequent years. See also footnote 1, table 937. ⁴ Includes controlled circulation publications. ⁵ Includes \$37.4 million appropriated to postal revenues for public services as provided by the Postal Policy Act of 1958. ⁶ Interest expense on loans exceeded interest income received from investments. ⁷ See footnote 5, table 937. ⁸ Items otherwise qualified as 1st-class or airmail that exceed 12 ounces and 8 ounces, respectively. ⁹ Includes mail paid at other than bulk rates. Publishers' mail includes printed publications periodically issued and mailed at a known post office to paid subscribers. These include regular rate newspapers and magazines, and classroom and nonprofit rate publications. Outside-the-county publications are those mailed to destinations outside the county of publication. ¹⁰ Controlled circulation discontinued March 22, 1982. Beginning 1981, statistics are included in second-class. ¹¹ Publications of at least 24 pages and containing at least 25 percent nonadvertising content issued quarterly or more frequently for mainly free distribution. Includes certain trade publications and "shopper" guides. ¹² Items less than 16 ounces in weight not mailed at either 1st- or 2d-class rates. ¹³ Items not mailed at 1st-, 2d-, or 3d-class rates, except government and international mail. May include parcel post, catalogs weighing 16 ounces or more, books, films, and records. ¹⁴ Penalty and franked mail. ¹⁵ Mail from U.S. to foreign countries paid at international mail rates. ¹⁶ Consists of unassignable revenues; includes domestic airmail until 1976, and express mail and mailgrams beginning 1977. ¹⁷

NO. 939. U.S. POSTAL SERVICE EMPLOYEES, BY TYPE: 1960 TO 1982

[In thousands, except as indicated. As of June 30 except, beginning 1977, as of Sept. 30. Includes Puerto Rico, and all outlying areas except Canal Zone. See *Historical Statistics, Colonial Times to 1970*, series R 187, for total employees]

ITEM	1960	1965	1970	1975	1977	1978	1979	1980	1981	1982
Total employees	563	596	741	702	655	656	663	667	670	670
Regular.....	409	447	549	559	528	526	534	536	544	547
Postmasters.....	35	33	30	30	29	28	28	29	29	29
Office supervisors and tech. personnel.....	27	30	37	37	36	37	36	35	37	38
Office clerks and mail handlers ¹	172	188	243	239	228	226	230	229	232	232
City carriers and vehicle drivers.....	110	133	165	167	157	156	160	160	164	165
Rural carriers.....	31	31	31	31	31	31	32	33	33	34
Other.....	34	32	42	55	47	47	48	49	49	49
Substitute (part-time).....	154	148	193	143	127	130	129	130	126	123
Compensation and employee benefits (mil. dol.).....	2,953	4,156	6,462	10,805	13,124	14,031	15,162	16,541	18,018	19,094
Avg. salary per employee, (dol.) ²	5,245	6,973	8,721	15,392	20,037	21,389	22,869	24,799	26,893	28,499
Pieces of mail per employee, average.....	113	121	115	127	141	148	151	159	164	170

¹ Includes mobile unit employees. ² Includes fringe benefits.

Source of tables 938 and 939: U.S. Postal Service, *Annual Report of the Postmaster General*.

No. 940. U.S. POSTAL SERVICE—VOLUME OF MAIL, BY CLASS: 1970 TO 1982

[In millions, except per capita. For years ending June 30 except, beginning 1980, ending Sept. 30. Includes Puerto Rico and all outlying areas except Canal Zone. For definition of classes of mail, see footnotes, table 938. See also *Historical Statistics, Colonial Times to 1970*, series R 172-186]

CLASS OF MAIL	PIECES OF MAIL					WRIGHT OF MAIL (lb.)				
	1970	1975	1980	1981	1982	1970	1975	1980	1981	1982
Total	84,882	89,266	106,311	110,130	114,049	13,281	12,025	12,958	13,515	13,944
Domestic.....	83,986	88,334	105,348	109,244	113,122	13,055	11,824	12,742	13,303	13,713
1st class and airmail ¹	50,174	52,482	60,332	61,476	62,271	1,636	1,746	2,213	2,309	2,345
Priority mail.....	185	207	248	269	259	371	440	591	635	582
2d class.....	9,352	9,085	8,446	² 9,966	² 9,527	3,417	2,792	2,550	² 3,483	² 3,432
3d class.....	19,974	21,867	30,381	33,607	36,719	2,032	2,283	3,240	3,758	4,296
4th class.....	977	801	633	590	597	4,786	3,754	2,661	2,480	2,446
Controlled circulation publications.....	562	628	1,775	(²)	(²)	224	232	928	(²)	(²)
Penalty.....	2,544	2,928	2,992	2,898	2,946	540	527	503	568	513
Franked and free for blind.....	218	336	540	448	803	49	50	56	70	49
International.....	896	932	963	886	927	226	201	216	212	231
Per capita: ³										
Total, all domestic mail ⁴	412	415	475	477	490	64	56	57	58	59
1st class and airmail.....	246	247	272	269	270	8	8	10	10	10
2d class.....	46	43	36	44	41	17	13	12	15	15
3d class.....	98	103	137	147	159	10	11	15	16	19
4th class.....	5	4	3	3	3	23	18	12	11	11

¹ Beginning 1980, includes express mail established as a class of mail on October 9, 1977, and mailgrams. ² Controlled circulation discontinued March 22, 1981. Beginning 1981 statistics are included in second-class. ³ Based on estimated total population as of Jan. 1, including Armed Forces abroad. ⁴ Includes types of mail not shown separately.

Source: U.S. Postal Service, *Annual Report of the Postmaster General*.

No. 941. U.S. POSTAL SERVICE RATES FOR LETTERS AND POST CARDS: 1958 TO 1981

[See also *Historical Statistics, Colonial Times to 1970*, series R 188-191]

DATE OF RATE CHANGE	SURFACE MAIL				Domestic air-mail letters ¹	DATE OF RATE CHANGE	SURFACE MAIL				Domestic air-mail letters ¹
	Letters			Postal and post cards			Letters			Postal and post cards	
	Each ounce	First ounce	Each added ounce				Each ounce	First ounce	Each added ounce		
1958 (Aug. 1).....	4¢	(x)	(x)	3¢	7¢	1975 (Sept. 14).....	² (x)	10¢	9¢	7¢	(x)
1963 (Jan. 7).....	5¢	(x)	(x)	4¢	8¢	1975 (Dec. 31).....	² (x)	² 13¢	² 11¢	² 9¢	(³)
1968 (Jan. 7).....	6¢	(x)	(x)	5¢	10¢	1978 (May 29).....	(x)	15¢	13¢	10¢	(⁴)
1971 (May 16).....	8¢	(x)	(x)	6¢	11¢	1981 (Mar. 22).....	(x)	18¢	17¢	12¢	(⁴)
1974 (Mar. 2).....	10¢	(x)	(x)	8¢	13¢	1981 (Nov. 1).....	(x)	20¢	17¢	13¢	(⁴)

X Not applicable. ¹ Each ounce, except as noted. ² As of October 11, 1975, surface mail service upgraded to level of airmail. ³ 17¢ for first ounce; 15¢ for each added ounce. ⁴ As of May 1, 1977, domestic airmail service, as a separate class of mail, was discontinued.

Source: U.S. Postal Service, "United States Domestic Postage Rates: Recent History," and unpublished data.

No. 942. INTERNATIONAL AIR MAIL RATES FROM THE U.S.: 1961 TO 1981

[Excludes Canada and Mexico]

DATE OF RATE CHANGE	ZONE 1 ¹		ZONE 2 ²		ZONE 3 ³		Post cards	Aero-grammes
	Each ½ ounce up to two ounces	Each added ½ ounce	Each ½ ounce up to two ounces	Each added ½ ounce	Each ½ ounce up to two ounces	Each added ½ ounce		
July 1, 1961.....	.13	.13	.15	.15	.25	.25	.11	.11
May 1, 1967.....	.15	.15	.20	.20	.25	.25	.13	.13
July 1, 1971.....	.17	.17	.21	.21	.21	.21	.13	.13
Mar. 2, 1974.....	.21	.17	.26	.21	.26	.21	.18	.18
Jan. 3, 1976.....	.25	.21	.31	.26	.31	.26	.21	.22
Jan. 1, 1981.....	.35	⁴ .30	.40	⁵ .35	.40	⁵ .35	.28	.30

¹ Caribbean, Central and South America. The airmail letter rate to South America, 1961 to 1967, was the same as that to Europe. Beginning January 3, 1976, the airmail letter rate to all South American countries except Colombia and Venezuela is the same as Europe; Colombia and Venezuela are included in the first zone. ² Europe and Mediterranean Africa. ³ Rest of world.

⁴ Up to 32 oz.; 30 cents per additional ounce over 32. ⁵ Up to 32 oz.; 35 cents per additional ounce over 32.

Source: U.S. Postal Service, unpublished data.

No. 943. UTILIZATION OF SELECTED MEDIA: 1950 TO 1983

ITEM	Unit	1950	1960	1965	1970	1975	1978	1979	1980	1981	1982	1983
Households with —												
Telephone service ¹	Percent	82	79	85	91	93	96	96	96	97	(NA)	(NA)
Radio sets ²	Percent	92.6	96.3	98.6	98.6	98.9	98.9	99.0	99.0	99.0	99.0	99.0
Average number of sets	Number	2.1	3.7	4.1	5.1	5.6	5.7	5.7	5.5	5.5	5.5	5.5
Television sets ³	Percent	9	87	93	95	97	98	98	98	98	98	98
Color set households	Millions	—	.3	2.8	20.9	46.9	56.9	60.3	63.4	68.1	71.4	73.9
Average viewing per day ⁴	Hours	4.6	5.1	5.5	5.9	6.1	6.3	6.3	6.3	6.6	6.7	6.8
Average number of sets ⁵	Number	1.01	1.13	1.22	1.39	1.54	1.63	1.68	1.70	1.75	1.79	(NA)
Stations ⁶	Number	2,336	4,218	4,867	5,584	6,228	6,462	6,492	6,603	(NA)	(NA)	(NA)
AM and FM	Number	2,143	3,470	3,941	4,209	4,355	4,316	4,253	4,259	(NA)	(NA)	(NA)
FM affiliates of AM stations	Number	(NA)	(NA)	(NA)	225	477	655	681	715	(NA)	(NA)	(NA)
FM independents	Number	86	218	338	464	703	777	835	904	(NA)	(NA)	(NA)
TV stations	Number	107	530	588	686	693	714	723	725	(NA)	(NA)	(NA)
Cable television: ⁷												
Systems	Number	*70	640	1,325	2,490	3,506	3,875	4,150	4,225	4,375	4,825	5,600
Subscribers served	Millions	*.01	.65	1.3	4.5	9.8	13.0	14.1	15.5	18.3	21.0	25.0
Daily newspaper circulation: ⁸												
Number	Millions	53.8	58.9	60.4	62.1	60.7	62.0	62.2	62.2	61.4	62.5	(NA)
Per capita ¹⁰	Number	.354	.327	.312	.305	.282	.279	.277	.275	.268	.270	(NA)

— Represents zero. NA Not available. ¹ As of Dec. 31. Source: American Telephone and Telegraph Company, New York, N.Y., unpublished data. ² As of Dec. 31. Source: Radio Advertising Bureau, New York, N.Y., *Radio Facts*, annual (copyright). ³ 1970-1979, as of Sept. of prior year; all other years as of Jan. of year shown. Source: Except as noted, 1950-1965, National Broadcasting Company, New York, N.Y., thereafter, A.C. Nielsen Company, Northbrook, Ill. (copyright). ⁴ Source: A.C. Nielsen Company, Northbrook, Ill. (copyright). ⁵ 1950-1965 as of January; 1970-1978 as of Sept.; 1979-1982 as of January. Excludes Alaska and Hawaii. Source: Television Bureau of Advertising, Inc. New York, "Trends in Television 1950 to Date", March 1983. ⁶ Reporting stations, as of Dec. 1. Includes Puerto Rico and Virgin Islands. Source: U.S. Federal Communications Commission, *AM-FM and TV Broadcast Financial Data*, annual, and unpublished data. ⁷ As of Jan. 1. Source: Television Digest, Inc., Washington, D.C. *Television Factbook*, annual (copyright). ⁸ Data for 1952. ⁹ As of Sept. 30, except 1950-1965, as of Oct. 1. Source: Editor & Publisher, Inc., New York, N.Y., *Editor & Publisher International Year Book*, annual (copyright). ¹⁰ Per capita based on total resident population enumerated as of April 1, 1970 and 1980, and estimated as of July 1 for other years.

Source: Compiled from sources listed in footnotes.

No. 944. TELEPHONE AND TELEGRAPH SYSTEMS: 1950 TO 1981

[Covers principal carriers filing annual reports with Federal Communications Commission. See *Historical Statistics, Colonial Times to 1970*, series R 46-70 and R 75-88, for data on telegraph systems]

ITEM	Unit	1950	1955	1960	1965	1970	1975	1978	1979	1980	1981
Domestic telephone: ¹ Carriers	Number	71	53	52	54	56	62	63	61	59	60
Telephones ²	Million	147	50	66	82	105	130	148	153	157	158
Miles of wire	Million	147	205	316	436	628	872	1,022	1,081	1,131	1,188
Gross book cost of plant	Bil. dol.	10.7	16.4	25.7	38.0	59.9	95.5	123.6	134.9	147.4	161.5
Depreciation reserves ³	Bil. dol.	3.0	4.1	5.6	8.1	12.2	18.8	23.5	24.9	26.5	30.0
Ratio to book cost	Percent	27.8	25.3	21.7	21.4	22.1	19.7	19.0	18.5	18.0	18.6
Capital stock	Bil. dol.	3.6	5.6	8.4	10.8	12.4	14.8	15.5	15.3	16.3	17.5
Operating revenues	Bil. dol.	2.5	3.7	5.0	7.1	11.7	20.2	25.2	25.2	33.0	35.6
Operating expenses ⁴	Bil. dol.	.5	.8	1.4	2.1	3.1	5.6	8.1	8.9	10.0	11.4
Net operating income ⁵	Bil. dol.	.4	.7	1.3	1.9	2.3	3.6	5.9	6.0	6.6	7.5
Net income	Bil. dol.	.4	.7	1.3	1.9	2.3	3.6	5.9	6.0	6.6	7.5
Employees	1,000	565	649	627	655	839	840	894	928	938	945
Compensation of employees	Bil. dol.	1.8	2.7	3.4	4.3	7.0	11.7	16.2	18.4	20.2	22.2
Overseas telephone:											
Number of overseas calls	Million	.7	1.2	3.3	7.5	23.4	62.2	133.9	168.3	199.6	265.5
Revenue from overseas calls	Mill. dol.	9	16	42	101	252	562	963	1,106	1,535	1,654
Ocean cable systems	Number	1	1	5	11	13	14	15	15	16	17
Communications satellites	Number	—	—	—	1	4	5	5	5	5	5
Domestic telegraph: Carriers	Number	1	1	1	1	1	1	1	1	1	1
Revenue messages transmitted	Million	179	154	124	94	70	42	50	55	55	56
Message revenues ⁶	Mill. dol.	152	189	190	192	234	197	238	271	296	320
Total operating revenues	Mill. dol.	178	229	262	306	402	505	576	636	697	779
Operating revenue deductions	Mill. dol.	167	206	247	282	368	435	492	561	603	669
Operating income ⁷	Mill. dol.	9	13	11	24	34	70	84	75	94	110
Teleypewriter messages	Million	15	23	33	47	46	54	56	59	68	63
Overseas telegraph: ⁸											
Carriers	Number	11	10	9	6	6	6	7	7	7	7
Revenue messages transmitted	Million	23	28	28	29	32	26	22	21	20	18
Message revenues ⁹	Mill. dol.	42	50	71	78	124	217	320	355	380	405
Total operating revenues	Mill. dol.	50	68	87	107	194	316	455	497	535	578
Operating revenue deductions	Mill. dol.	45	58	77	87	156	245	336	362	405	468
Operating income ⁷	Mill. dol.	4	3	6	14	26	48	83	85	79	70
Return on investment: ¹⁰											
Telephone	Percent	6.1	6.6	7.3	7.3	7.1	7.6	8.5	8.5	8.7	9.0
Domestic telegraph	Percent	5.1	7.6	5.0	5.6	5.0	6.1	6.6	5.5	6.6	7.4
Overseas telegraph	Percent	7.3	5.8	7.2	11.0	10.6	12.0	18.2	17.9	15.9	12.5

— Represents zero. ¹ Includes Puerto Rico and, beginning 1965, Virgin Islands. Excludes intercompany duplications. Gross operating revenues of carriers reporting since 1970 estimated at 90 percent of all carriers. ² Includes company, service, and private. ³ Includes amortization reserves. ⁴ Excludes taxes. ⁵ After tax deductions. ⁶ Includes telex service; for domestic telegraph, excludes TWX. ⁷ After Federal income taxes. ⁸ Beginning 1965, excludes South American and most Caribbean operations of All America Cables and Radio, Inc. ⁹ Ratio of net operating income (after taxes) to average net book cost of communications plant.

Source: U.S. Federal Communications Commission, *Statistics of Communications Common Carriers*, annual, and unpublished data.

NO. 945. BELL TELEPHONE COMPANIES—SUMMARY: 1960 TO 1982

[As of Dec. 31 or for calendar year, as applicable. Comprises American Telephone and Telegraph Company and its principal telephone subsidiaries, plus Southern New England and Cincinnati Bell Telephone Companies. See also *Historical Statistics, Colonial Times to 1970*, series R 17-30]

ITEM	Unit	1960	1965	1970	1975	1977	1978	1979	1980	1981	1982
Central offices ¹	1,000	11.2	13.4	15.1	17.2	17.8	18.1	18.7	19.2	19.7	20.2
Miles of—											
Wire	Million	308	423	602	832	910	962	1,018	1,088	1,113	1,152
Coaxial tube	1,000	97	169	287	333	337	331	332	334	330	308
Telephone grade carrier channel ²	Million	76	167	414	645	715	758	854	979	1,094	1,145
Microwave radio relay ³	1,000	298	728	1,181	1,389	1,407	1,402	1,402	1,470	1,706	1,546
Book value of plant (cost)	Bil. dol.	24.7	36.2	56.2	89.2	103.6	113.0	123.9	135.5	148.5	159.7
Depreciation reserves ⁴	Bil. dol.	5.4	7.8	12.6	17.6	19.9	21.2	22.6	24.0	27.2	30.9
Operating revenues ⁵	Bil. dol.	8.1	11.3	17.4	29.6	37.3	42.0	46.4	51.9	59.4	65.7
Local exchange	Bil. dol.	4.7	6.1	8.7	14.4	17.5	19.2	20.8	23.0	28.3	29.6
Toll	Bil. dol.	3.1	4.7	8.0	14.2	18.5	21.2	23.8	26.7	30.9	33.9
Operating expenses ⁶	Bil. dol.	5.6	7.9	12.9	22.2	27.7	31.0	34.9	39.3	45.0	51.4
Net income	Bil. dol.	1.3	1.9	2.3	3.3	4.7	5.6	5.6	6.1	6.9	6.6
Dividends declared ⁷	Bil. dol.	.8	1.1	1.5	2.2	2.9	3.3	3.8	4.0	4.5	4.9
Net income ⁸	Bil. dol.	1.2	1.8	2.2	2.9	4.3	5.1	5.5	5.9	6.7	6.4
Average common equity	Bil. dol.	12.1	18.9	23.9	29.6	35.3	39.0	42.6	46.7	52.1	57.5
Return to average common equity	Ratio	10.0	9.5	9.2	9.7	12.2	13.1	12.9	12.7	12.9	12.2
Employees, number	1,000	595	627	793	789	785	823	855	868	874	840
Wages and salaries	Bil. dol.	3.3	4.2	6.6	11.1	13.4	15.1	17.3	19.3	21.5	23.2

¹ 1960 not fully comparable with later years. ² Message circuits added to existing wire mileage, but not requiring additional wire. Also includes microwave radio. ³ Broadband, 1-way channel. ⁴ Includes amortization reserves. ⁵ Includes miscellaneous and uncollectible, not shown separately. ⁶ Includes operating taxes other than Federal income tax. ⁷ Excludes intercompany dividends. ⁸ Beginning 1975, applicable to ATT common (excludes preferred dividend requirement).

Source: American Telephone and Telegraph Company, New York, N.Y., unpublished data compiled from reports of Bell System and Southern New England and Cincinnati Bell Companies.

NO. 946. INDEPENDENT TELEPHONE COMPANIES—SUMMARY: 1955 TO 1982

[As of Dec. 31 or calendar year, as applicable. See also *Historical Statistics, Colonial Times to 1970*, series R 31-45]

ITEM	Unit	1955	1960	1965	1970	1975	1978	1979	1980	1981	1982
All companies ¹	Number	4,713	3,299	2,421	1,841	1,618	1,527	1,488	1,483	1,459	1,432
Telephones	1,000	8,461	11,428	15,027	20,312	26,823	31,549	33,226	34,665	35,341	(NA)
Access lines	1,000	(NA)	(NA)	(NA)	(NA)	16,855	19,246	20,078	20,808	21,429	21,700
Total telephone plant	Mil. dol.	2,043	4,019	8,826	12,390	21,200	27,788	31,544	35,300	38,298	41,941
Operating revenues	Mil. dol.	590	1,020	1,670	2,953	5,500	8,085	9,240	10,475	12,206	13,979
Reporting companies ²	Number	406	550	669	684	731	761	755	765	768	754
Telephones	1,000	6,750	9,718	13,648	19,182	25,548	30,323	32,511	33,748	34,593	(NA)
Access lines	1,000	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	18,576	19,412	20,561	21,146
Telephone plant in service	Mil. dol.	1,656	3,396	6,056	11,175	19,520	25,640	29,379	32,491	35,986	38,847
Depreciation reserves	Mil. dol.	326	600	1,168	2,203	4,120	6,063	6,960	7,820	8,905	10,220
Operating revenues	Mil. dol.	503	1,040	1,530	2,791	5,294	7,807	9,073	10,177	11,860	13,445
Operating expenses ³	Mil. dol.	354	630	1,040	1,953	3,639	5,405	6,415	7,279	8,449	10,899
Net income	Mil. dol.	67	117	225	356	711	1,073	1,210	1,268	1,505	1,751
Common stock and surplus	Mil. dol.	555	1,111	1,894	3,733	6,181	7,751	8,719	9,623	10,641	11,396
Net income to common stock and surplus	Percent	12.0	10.5	11.9	9.5	11.5	13.8	13.9	13.2	14.2	15.4
Employees	1,000	72	85	101	142	152	172	187	189	192	186
Wages and salaries	Mil. dol.	224	359	537	1,001	1,737	2,579	3,015	3,373	3,775	4,069

NA Not available. ¹ All telephone companies independent of Bell System. ² Comprises only companies submitting operating information to source cited below. ³ Excludes Federal income tax.

Source: United States Independent Telephone Association, Washington, D.C., *Statistics of the Independent Telephone Industry*, annual. (Copyright.)

NO. 947. REA AND RURAL TELEPHONE BANK PROGRAM—SUMMARY: 1960 TO 1982

ITEM	Unit	1960	1965	1970	1975	1978	1979	1980	1981	1982
Loans and guarantees approved, Dec. 31: ¹										
Borrowers	Number	727	845	862	921	966	981	990	1,010	1,029
REA amount	Mil. dol.	737	1,200	1,816	2,576	3,354	3,608	3,845	4,076	4,327
Guaranteed amount	Mil. dol.	—	—	—	237	392	392	418	553	626
Rural Telephone Bank amount	Mil. dol.	—	—	—	618	1,121	1,262	1,388	1,529	1,726
Route miles of line, ² Dec. 31	1,000	287	460	547	653	748	772	798	805	838
Subscribers, Dec. 31	1,000	1,142	1,726	2,335	3,045	3,877	4,073	4,262	4,375	4,545
Telephones in service	1,000	1,280	2,046	2,989	4,355	5,825	6,335	6,770	6,953	7,147
Total operating revenues	Mil. dol.	94	187	363	753	1,306	1,540	1,750	2,042	2,389
Total telephone plant	Mil. dol.	635	1,168	2,095	3,850	5,770	6,558	7,388	8,034	8,897
Employees	1,000	8.7	11.6	15.4	20.0	26.3	27.9	28.4	28.7	28.8

— Represents zero. ¹ Cumulative net loans (cancellations deducted). ² Line in service.

Source: U.S. Rural Electrification Administration, *Statistical Report—Rural Telephone Borrowers*, annual.

No. 948. TELEPHONES, CALLS, AND RATES: 1960 TO 1981

[See also *Historical Statistics, Colonial Times to 1970*, series R 1-16]

ITEM	Unit	1960	1965	1970	1974	1975	1977	1978	1979	1980	1981
Telephones, Dec. 31	Million	74	94	120	144	149	162	169	176	180	182
Total per 1,000 population	Number	408	478	582	670	686	732	755	755	790	789
Bell companies ¹	Million	63	79	100	118	122	132	137	143	145	147
Independent companies	Million	11	15	20	26	27	30	31	32	35	35
Business	Million	21	26	33	39	39	42	44	46	48	47
Residence	Million	54	68	87	105	110	120	125	130	133	135
Households with service ²	Percent	79	85	91	93	93	95	96	96	96	97
Average daily conversations:											
Bell companies ¹ ³	Million	225	287	379	470	481	519	561	576	595	601
Local	Million	215	273	356	438	448	479	515	526	541	545
Long distance	Million	10	14	23	32	33	40	45	50	54	56
Independent companies ³	Million	60	80	107	143	146	160	176	180	192	199
Local	Million	58	77	103	136	137	150	165	168	176	182
Long distance	Million	2	3	4	7	9	10	11	14	16	17
Toll rates in effect, Dec. 31, from New York City to—⁴											
Philadelphia	Dollar	.50	.50	.50	.60	.90	1.01	1.01	1.05	1.22	
Chicago	Dollar	1.45	1.40	1.05	1.15	1.20	1.18	1.18	1.18	1.25	1.45
Denver	Dollar	1.80	1.70	1.25	1.35	1.30	1.24	1.24	1.24	1.31	1.52
San Francisco	Dollar	2.25	2.00	1.35	1.45	1.36	1.30	1.30	1.30	1.37	1.58
London	Dollar	(NA)	(NA)	3.60	3.60	3.60	3.60	4.50	4.50	4.80	3.00
Cairo	Dollar	(NA)	(NA)	(NA)	9.00	9.00	9.00	9.00	9.00	9.45	9.45
Tokyo	Dollar	(NA)	9.00	9.00	9.00	9.00	9.00	7.80	7.35	7.80	4.95
Buenos Aires	Dollar	(NA)	(NA)	8.00	8.00	8.00	8.00	8.00	6.75	7.05	4.50

NA Not available. ¹ See headline, table 945. ² See footnote 3, table 949 for definition. Based on revised household counts. ³ Includes messages originating in independent company areas routed in part over Bell facilities. ⁴ Source: Federal Communications Commission, tariff releases. Rates for dialing station-to-station, daytime, 3-minute calls.

Source: Except as noted, American Telephone and Telegraph Company, New York, N.Y., unpublished data.

No. 949. TELEPHONES IN USE, BY STATES: 1970 AND 1981

[As of Dec. 31]

STATE	TELEPHONES						PERCENT HOUSE- HOLDS WITH SERVICE ³	STATE	TELEPHONES						PERCENT HOUSE- HOLDS WITH SERVICE ³		
	Number (1,000)		Percent owned by Bell ¹		Per 100 popula- tion, ²	1970			1981	Number (1,000)		Percent owned by Bell ¹		Per 100 popula- tion, ²		1970	1981
	1970	1981	1970	1981						1970	1981	1970	1981				
U.S.	120,155	161,892	83	81	58	92	96	Mo.	2,753	3,879	83	79	59	91	94		
Ala.	1,563	2,641	84	82	51	80	87	Mont.	357	631	84	82	58	89	95		
Alaska.	85	325	-	-	50	(NA)	90	Nebr.	884	1,344	58	57	63	96	100		
Ariz.	956	2,195	97	95	58	82	95	Nev.	333	756	35	35	61	84	84		
Ark.	859	1,462	73	69	49	77	85	N.H.	425	728	95	95	58	99	99		
Calif.	13,306	21,163	79	77	62	94	100	N.J.	4,786	6,797	98	98	68	99	103		
Colo.	1,374	2,561	98	98	62	93	97	N. Mex.	494	897	87	85	47	80	86		
Conn.	2,061	2,702	99	99	64	100	103	N.Y.	12,416	12,750	92	91	53	97	97		
Del.	380	540	100	100	65	97	100	N.C.	2,385	4,325	52	53	55	82	91		
D.C.	878	1,095	100	100	81	100	103	N. Dak.	321	541	70	72	60	94	98		
Fla.	4,142	8,679	68	64	64	88	98	Ohio.	6,201	8,085	77	75	57	94	94		
Ga.	2,413	4,339	86	86	58	83	88	Okla.	1,469	2,550	88	85	60	88	96		
Hawaii.	424	722	-	-	48	(NA)	98	Oreg.	1,190	2,034	78	71	54	89	86		
Idaho.	358	718	80	78	55	87	92	Pa.	7,476	9,895	83	80	63	95	99		
Ill.	7,110	10,276	83	83	67	94	99	R.I.	531	730	100	100	58	96	98		
Ind.	2,805	4,117	66	64	57	90	92	S.C.	1,168	2,132	74	71	50	80	86		
Iowa.	1,625	2,297	70	68	60	95	95	S. Dak.	335	529	81	78	57	81	92		
Kans.	1,301	2,008	83	83	64	93	96	Tenn.	1,847	3,248	84	83	54	84	88		
Ky.	1,435	2,338	73	70	48	80	86	Texas.	6,329	11,691	84	80	57	86	95		
La.	1,781	3,092	95	93	54	87	93	Utah.	596	1,094	96	96	54	93	93		
Maine.	490	816	90	88	56	93	98	Vt.	236	378	87	87	54	97	101		
Md.	2,482	3,649	100	100	64	93	99	Va.	2,476	3,956	80	79	54	88	91		
Mass.	3,523	4,655	100	100	59	98	101	Wash.	1,996	3,342	77	72	55	91	90		
Mich.	5,135	7,253	89	87	60	95	98	W. Va.	763	1,138	87	86	45	82	85		
Minn.	2,248	3,257	82	78	58	97	99	Wis.	2,370	3,501	72	67	55	95	98		
Miss.	891	1,613	95	95	49	71	82	Wyo.	196	429	94	94	60	89	89		

- Represents zero. NA Not available. ¹ Includes 463,200 service telephones (noncompany telephones for which switching service is provided) in 1970, and 364,305 in 1981. ² Residential telephones per 100 population. Based on Bureau of the Census estimated resident population as of July 1, 1981. ³ Households with service are sum of residence main, apartment house private branch exchange and residence service main telephones, and other residence private branch exchange systems. There tends to be a slight overstatement of the proportion of households with telephone service.

Source: U.S. Federal Communications Commission, *Statistics of Communications Common Carriers*, annual.

NO. 950. TELEVISION BROADCAST INDUSTRY FINANCES: 1960 TO 1980

[For commercial stations only. Includes Puerto Rico and Virgin Islands. Net revenues are total time sales of all networks and stations, less commissions to agencies plus incidental revenues (eg. sale of talent and program material). See *Historical Statistics, Colonial Times to 1970*, series R 123-139]

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980
Number of networks, Dec. 31.....	3	3	3	3	3	3	3	3	3	3
Number of stations reporting, Dec. 31.....	530	588	686	694	693	701	697	714	723	725
VHF.....	454	488	506	514	513	511	512	513	512	507
UHF.....	76	100	180	180	180	190	185	201	211	218
FINANCES (mil. dol.)										
Broadcast revenues, gross.....	1,504	2,328	3,337	4,479	4,860	5,191	7,000	8,266	9,365	10,477
Sales to advertisers.....	1,456	2,266	3,243	4,354	4,722	5,030	6,840	8,102	9,183	10,279
Network sales.....	747	1,142	1,551	2,005	2,157	2,875	3,242	3,726	4,311	4,800
National non-network sales.....	469	796	1,103	1,336	1,449	1,923	1,966	2,336	2,574	2,929
Local sales.....	240	328	589	1,012	1,116	1,432	1,631	2,040	2,298	2,542
Nonadvertising revenues.....	48	62	94	125	138	159	158	164	182	198
Broadcast revenues, net.....	1,269	1,965	2,808	3,781	4,094	5,199	5,869	6,950	7,875	8,808
3 networks ¹	641	1,024	1,457	1,921	2,069	2,604	3,085	3,549	4,093	4,566
Other stations.....	628	941	1,351	1,860	2,025	2,594	2,804	3,400	3,782	4,242
Broadcast expenses of networks and stations.....	1,025	1,517	2,354	3,043	3,314	3,948	4,488	5,297	6,185	7,154
3 networks ¹	546	862	1,290	1,590	1,755	2,150	2,530	2,989	3,517	4,031
Other stations.....	479	655	1,065	1,453	1,559	1,798	1,958	2,307	2,668	3,123
Broadcast income ²	244	448	454	738	780	1,250	1,401	1,653	1,690	1,654
3 networks ¹	95	162	167	331	314	455	555	560	575	534
Other stations.....	149	286	286	406	466	796	846	1,094	1,115	1,119

¹ Includes owned and operated stations. ² Before Federal income tax.

Source: U.S. Federal Communications Commission, *TV Broadcast Financial Data*, annual (discontinued).

NO. 951. RADIO BROADCAST INDUSTRY FINANCES: 1960 TO 1980

[Minus sign (—) indicates loss. See headnote, table 950, and *Historical Statistics, Colonial Times to 1970*, series R 106-122]

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980
Number of networks, Dec. 31.....	4	4	7	7	7	7	7	8	8	8
Number of stations reporting, Dec. 31.....	3,688	4,279	4,898	5,436	5,535	5,638	5,619	5,748	5,769	5,878
AM and AM-FM.....	3,470	3,941	4,209	4,361	4,355	4,363	4,292	4,316	4,253	4,259
FM independents.....	218	338	484	678	703	713	741	777	835	904
FM affiliates of AM stations ¹	(NA)	(NA)	225	397	477	562	586	655	681	715
FINANCES (mil. dol.)										
Broadcast revenues, gross.....	665	880	1,272	1,774	1,911	2,247	2,535	2,935	3,198	3,577
Revenues from sales to advertisers.....	654	868	1,257	1,756	1,890	2,226	2,513	2,911	3,172	3,547
Network sales.....	45	54	49	60	73	92	118	126	139	158
National non-network sales.....	208	261	355	387	416	495	521	592	637	746
Local sales.....	401	553	853	1,309	1,401	1,639	1,873	2,192	2,397	2,643
Nonadvertising revenues.....	11	12	15	18	21	21	22	24	26	30
Broadcast revenues, net.....	598	793	1,137	1,603	1,725	2,019	2,275	2,635	2,874	3,206
AM and AM-FM ²	592	777	1,077	1,410	1,480	1,687	1,846	2,065	2,177	2,343
FM independents.....	6	16	41	128	143	180	225	285	362	441
FM affiliates of AM stations ¹	(NA)	(NA)	19	65	102	152	203	285	336	422
Networks ³	63	74	88	116	134	166	213	236	253	293
Other stations.....	535	719	1,049	1,487	1,591	1,853	2,062	2,399	2,621	2,913
Broadcast expenses of networks and stations.....	552	715	1,044	1,519	1,638	1,841	2,020	2,324	2,643	3,047
AM and AM-FM ²	544	696	973	1,315	1,384	1,529	1,642	1,827	2,004	2,240
FM independents.....	6	19	47	141	152	176	216	262	348	437
FM affiliates of AM stations ¹	(NA)	(NA)	24	63	98	136	171	235	291	370
Networks ³	66	71	90	116	128	157	166	193	215	265
Other stations.....	486	644	955	1,403	1,510	1,684	1,862	2,131	2,427	2,782
Broadcast income ⁴	46	78	93	84	91	179	246	311	231	159
AM and AM-FM ²	49	81	104	95	95	158	204	237	173	102
FM independents.....	-2	-3	-6	-13	-9	4	9	24	14	4
FM affiliates of AM stations ¹	(NA)	(NA)	-5	2	5	17	32	60	45	53
Networks ³	-3	3	-1	-	-	9	47	44	37	27
Other stations.....	49	75	94	84	85	170	200	267	194	132

- Represents zero. NA Not available. ¹ For 1960 and 1965, reports combined with AM stations. ² Includes national

networks. ³ Includes owned and operated stations. ⁴ Before Federal income tax.

Source: U.S. Federal Communications Commission, *AM-FM Broadcast Financial Data*, annual (discontinued).

NO. 952. BROADCAST AND NONBROADCAST STATIONS AUTHORIZED AND OPERATORS LICENSED, BY CLASS: 1975 TO 1982

[1975 as of June 30; thereafter, as of Sept. 30. Includes Puerto Rico and Virgin Islands. See also *Historical Statistics, Colonial Times to 1970*, series R 140-148]

CLASS	1975	1980	1982	CLASS	1975	1980	1982
	STATIONS AUTHORIZED (1,000)				STATIONS AUTHORIZED (number)		
Private radio services ¹	2,602.4	16,357.3	7,709.6	Mass media services ⁴	33,049	39,052	43,114
Amateur and disaster.....	276.8	389.9	410.6	Cable TV relay service ⁴	877	1,880	2,414
Personal.....	1,530.8	14,560.2	5,759.0	Commercial AM.....	4,488	4,689	4,838
Aviation.....	184.4	231.6	238.0	Commercial TV.....	759	844	975
Aircraft.....	154.7	196.8	202.5	Educational TV.....	256	288	303
Aeronautical and fixed.....	7.4	9.5	9.6	TV translator.....	3,369	4,636	5,513
Civil air patrol.....	19.6	21.6	22.1	Auxiliary TV.....	3,032	5,844	7,236
Other.....	2.7	3.7	3.8	Experimental TV.....	3	5	9
				UHF signal booster.....	9	6	6
Industrial.....	244.6	504.9	649.0	Aural, studio-transmitter-link, intercity relay.....	1,008	2,144	2,782
Power.....	17.5	23.1	27.3	Commercial FM.....	2,847	3,390	3,749
Business.....	155.2	370.4	483.6	Educational FM.....	850	1,156	1,255
Petroleum.....	11.8	17.9	21.4	International.....	4	4	12
Forest products.....	4.3	6.4	6.6	Remote pickup.....	14,959	12,796	12,038
Special industrial.....	40.7	72.1	90.5	Instructional TV, fixed.....	187	223	310
Other.....	15.1	14.7	19.6	Other.....	381	1,147	1,675
Land transportation.....	22.6	28.0	34.4	Common carrier services.....	27,357	27,565	34,344
Railroad.....	8.9	10.0	11.4	Point-to-point microwave.....	8,133	9,164	9,757
Taxicab.....	3.7	4.8	6.1	Multipoint distribution serv.....	69	215	352
Interurban property.....	2.2	3.1	4.4	Local TV transmission.....	64	66	69
Other.....	7.9	9.9	12.5	Rural radio.....	1,218	1,692	1,715
Marine.....	250.7	398.3	434.7	Developmental radio.....	(NA)	93	135
Ship.....	243.6	388.6	421.4	Public mobile ⁵	17,783	11,451	15,170
Alaskan.....	2.1	2.6	2.6	International control, fixed.....	25	7	7
Coastal and other.....	5.0	9.1	10.7	Satellite earth stations ⁶	48	4,873	7,013
				Satellites in orbit ⁶ ⁷	17	37	43
Public safety.....	92.6	137.1	166.2	Other.....	(NA)	56	83
Police.....	28.8	42.3	47.3	Experimental services.....	1,349	1,513	1,195
Fire.....	14.0	20.6	26.1				
Forestry conservation.....	6.2	7.6	8.6				
Highway maintenance.....	7.7	9.7	11.4	RADIO OPERATORS (1,000)			
Special emergency.....	12.4	22.4	30.6	Total.....	4,222	5,154	5,400
Other.....	23.5	34.2	42.2	Commercial.....	3,965	4,764	4,984
Operational fixed services ³	(NA)	18.0	17.7	Amateur.....	257	390	406

NA Not available. ¹ Each license, construction permit, or combination construction permit and license is counted as one station; therefore, a station might include a transmitter and many mobile units. ² Includes 89,096 stations for which a breakdown by class is not available. ³ Includes microwave operations. Prior to 1980, data not separable from other class categories.

⁴ Stations licensed or holding construction permits. ⁵ Beginning 1980, station count excludes individual land mobile units, which are no longer individually licensed. ⁶ Includes INTELSAT, INMARSAT and domestic satellite systems. ⁷ Includes retired and contingency satellites.

Source: U.S. Federal Communications Commission, *Annual Report*.

NO. 953. PUBLIC TELEVISION STATIONS: 1961 TO 1982

[Based on a "typical" broadcast week through 1972; calendar year data for 1974 and 1976; fiscal year data thereafter. General programming is directed at the general community. Instructional programming is directed at students in the classroom or otherwise in the general context of formal education]

ITEM	1961	1966	1968	1970	1972	1974	1976	1978	1980	1982
Stations.....	56	115	¹ 153	¹ 180	220	² 238	³ 253	272	281	291
Total weekly broadcast hours.....	2,186	5,688	¹ 8,534	¹ 12,217	15,587	18,321	22,096	26,064	27,643	30,337
General programs.....	1,431	3,248	4,671	7,697	7,904	10,668	14,329	17,929	19,508	21,418
Percent of total hours.....	65.5	57.5	54.7	63.0	50.7	59.3	64.8	68.8	69.6	70.6
Instructional programs ⁴	755	2,440	3,863	4,520	7,683	7,453	7,766	8,135	8,135	8,919
Average weekly broadcast hours per station.....	39.0	49.5	56.1	65.3	70.9	80.7	90.9	95.8	99.8	104.3
General programs.....	25.6	28.2	30.7	41.1	36.0	47.9	59.0	65.9	69.4	73.6
Instructional programming ⁴	13.8	21.2	25.4	24.2	34.9	32.8	31.9	29.9	30.4	30.7

¹ 152 stations reported in 1968 and 187 in 1970; details include data for reporting stations only. ² Includes data for 227 stations only, representing 147 primary broadcasters; does not include secondary broadcasters. ³ Includes data for 243 stations only, representing 151 primary broadcasters. ⁴ Beginning 1974, includes material from Children's Television Workshops.

Source: Through 1970, National Instructional Television Center, Bloomington, Ind., *One Week of Educational Television, 1970* (copyright); 1972, Corporation for Public Broadcasting, *One Week of Public TV, April 1972*, and unpublished data; 1974-1982, Corporation for Public Broadcasting, *PTV Programming Content by Category Report Series*, and unpublished data.

NO. 954. PUBLIC BROADCASTING SYSTEMS—INCOME BY SOURCE: 1972 TO 1982

[In millions of dollars, except as indicated. Fiscal year data. Beginning 1977 includes nonbroadcast income]

NUMBER OF STATIONS AND INCOME SOURCE	1972	1975	1977	1978	1979	1980	1981	1982, prel.	PERCENT DISTRIBUTION		
									1975	1980	1982
Number of CPB-qualified public radio stations	132	169	182	199	210	217	238	255	(x)	(x)	(x)
Public television stations	228	260	274	280	281	290	293	299	(x)	(x)	(x)
Total income	234.3	364.8	482.1	552.3	603.5	704.9	768.9	839.2	100.0	100.0	100.0
Federal government	59.8	92.3	135.3	160.8	163.2	192.5	193.7	198.3	25.3	27.3	23.6
State and local government ¹	107.7	156.6	191.3	218.2	245.5	271.6	277.5	297.6	42.9	38.5	35.5
Subscribers and auction/marathon	17.6	42.3	63.7	75.2	86.1	102.3	130.8	160.2	11.6	14.5	19.1
Business and industry	⁽²⁾	25.1	40.0	49.0	57.9	72.4	86.8	89.9	6.9	10.3	10.7
Foundation	25.1	28.7	22.6	17.2	20.4	23.5	19.3	22.2	7.9	3.3	2.6
Other	² 24.1	19.8	29.2	31.9	30.4	42.6	60.8	71.0	5.4	6.0	6.5

X Not applicable. ¹ Includes income received from State colleges and universities, and, beginning 1979 from other tax supported colleges and universities. ² Business and industry included in other.

Source: Corporation for Public Broadcasting, Washington, D.C., *Status Report of Public Broadcasting, 1982*, and unpublished data.

NO. 955. CABLE TELEVISION—SYSTEMS AND SUBSCRIBERS: 1952 TO 1983

[Subscribers in thousands, except percent]

YEAR (As of Jan. 1)	Sys- tems	Sub- scribers	YEAR (As of Jan. 1)	Sys- tems	Sub- scribers	SUBSCRIBER SIZE- GROUP ¹	Number of— ²		Percent of— ²	
							Sys- tems	Sub- scribers	Sys- tems	Sub- scribers
1952	70	14	1973	2,991	7,300	50,000 and over	57	4,388	.99	16.62
1955	400	150	1974	3,158	8,700	20,000-49,999	239	7,120	4.16	26.97
1960	640	650	1975	3,506	9,800	10,000-19,999	369	5,106	6.42	19.35
1965	1,325	1,275	1976	3,681	10,800	5,000-9,999	554	3,938	9.64	14.92
1967	1,770	2,100	1977	3,832	11,900	3,500-4,999	404	1,690	7.03	6.40
1968	2,000	2,800	1978	3,975	13,000	1,000-3,499	1,573	3,041	27.37	11.52
1969	2,260	3,600	1979	4,150	14,100	500-999	990	715	17.22	2.71
1970	2,490	4,500	1980	4,225	16,000	250-499	844	308	14.68	1.17
1971	2,639	5,300	1981	4,375	16,300	Less than 250	610	91	10.61	.34
1972	2,841	6,000	1982	4,825	21,000					
			1983	5,600	25,000					

¹ Excludes 108 systems not available by subscriber size-group. ² As of March 1, 1983.

Source: Television Digest, Inc., Washington, D.C., *Television Factbook*, annual. (Copyright.)

NO. 956. CABLE TELEVISION—SELECTED CHARACTERISTICS: 1976 TO 1981

[For fiscal year ending in December of year shown. Figures estimated based on financial entities reporting to the FCC. A financial entity is defined as one or more cable television community systems which report to the FCC as one business entity. Data adjusted for nonresponse]

YEAR	Com- mu- nities (num- ber)	FINANCIAL ENTITIES		SUBSCRIBERS		Total assets (mil. dol.)	Operating re- venues (mil. dol.)	Operating ex- penses (mil. dol.)	Operating in- come (mil. dol.)	Net in- come ¹ (mil. dol.)	Pay cable re- venue (mil. dol.)
		Total (num- ber)	Per- cent report- ing	Num- ber (1,000)	Average rate per month (dol.)						
1976	7,198	2,349	84	12,636	6.49	2,516	1,000	616	384	58	41
1977	8,369	2,577	90	12,832	6.85	2,450	1,206	717	489	134	86
1978	8,200	2,865	90	14,114	7.03	2,871	1,511	918	593	137	192
1979	8,539	2,992	94	15,760	7.37	3,212	1,817	1,127	690	199	355
1980	8,678	2,868	96	16,913	7.69	4,443	2,238	1,439	799	168	575
1981	11,944	3,800	88	23,565	7.94	7,915	3,599	2,387	1,202	47	1,172

¹ Before tax.

Source: U.S. Federal Communications Commission, *Cable Television Revenues*, annual.

NO. 957. RADIO AND TELEVISION STATIONS OWNED BY NEWSPAPERS AND/OR MAGAZINES:
1961 TO 1982

DATE	AM radio	FM radio	TV	DATE	AM radio	FM radio	TV	DATE	AM radio	FM radio	TV
1961, Sept. 1	412	147	161	1971, Dec. 1	318	203	176	1977, Dec. 1	314	230	211
1965, Oct. 31	391	170	174	1972, Dec. 1	325	171	178	1978, Dec. 1	319	252	221
1968, Dec. 4	381	191	183	1973, Dec. 1	304	211	179	1979, Dec. 1	319	257	226
1969, Dec. 1	394	245	189	1974, Dec. 1	321	236	193	1980, Dec. 1	315	264	230
1971, Feb. 1	402	248	191	1975, Dec. 1	320	238	197	1981, Dec. 1	311	277	246
				1976, Dec. 1	322	238	209	1982, Dec. 1	300	263	251

Source: Broadcasting Publications Inc., Washington, D.C., *Broadcasting Cablecasting Yearbook*. (Copyright.)

NO. 958. RADIOS AND TELEVISION SETS—PRODUCTION AND IMPORTS, BY TYPE: 1960 TO 1982

(In thousands, except percent)

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982
RADIOS ¹												
Total	24,463	41,726	44,427	43,992	34,515	44,101	52,926	48,035	40,029	39,574	44,359	44,088
Percent FM/AM-FM	(NA)	15.2	48.0	59.4	65.0	59.6	65.9	66.7	68.6	77.9	78.8	83.6
Table model	4,511	4,370	5,714	2,764	2,253	2,876	1,990	1,805	1,250	938	1,067	794
Percent FM/AM-FM	16.8	32.0	72.8	81.7	80.6	66.4	54.5	61.3	72.5	59.3	58.0	57.1
Clock model	3,780	5,448	4,674	9,174	6,641	7,353	11,447	11,488	9,354	9,445	9,782	8,433
Percent FM/AM-FM	4.1	16.0	53.8	79.1	89.1	85.8	89.4	92.3	93.4	97.6	97.9	98.3
Portable model	9,740	21,871	23,461	21,292	16,382	21,427	26,599	22,074	17,044	17,721	20,627	22,555
Percent FM/AM-FM	1.4	15.7	55.9	61.9	68.4	55.4	61.4	59.0	63.7	68.6	70.2	78.5
Auto model	6,432	10,037	10,378	10,762	9,239	12,445	12,890	12,668	12,831	11,470	12,883	12,306
Percent FM/AM-FM	(NA)	6.3	13.8	31.8	37.7	49.7	56.0	57.7	56.1	77.5	79.8	84.7
TELEVISION SETS ²												
Total	5,708	11,028	9,483	15,279	10,637	14,131	15,431	17,407	16,619	18,532	18,479	16,406
Monochrome sets	³ 5,708	³ 8,382	4,852	6,868	4,418	5,937	6,090	6,733	6,576	6,729	6,056	4,922
Table and portable	3,274	6,956	4,463	6,732	4,354	5,863	6,033	6,706	6,559	6,714	6,056	4,922
Console	2,211	1,318	389	136	64	74	57	27	17	15	(⁴)	(⁴)
Color sets ⁴	(NA)	2,646	4,631	8,411	6,219	8,194	9,341	10,674	10,043	11,803	12,423	11,484
Table and portable	(NA)	(NA)	2,495	5,898	4,186	5,785	6,722	7,913	7,727	9,373	9,851	9,102
Console	(NA)	(NA)	2,018	2,674	2,008	2,377	2,591	2,739	2,295	2,430	2,572	2,382

NA Not available. ¹ Products of U.S. manufacturers and imports by distributors or dealers for resale. Beginning 1974, also includes products purchased by U.S. manufacturers. ² Products produced or purchased by U.S. manufacturers for sale with their brand name. Beginning 1974, also includes products imported directly by distributors or dealers for resale. ³ For 1960 and 1965, includes combinations; beginning 1981 consoles included in table and portable. ⁴ 1965-1979 total includes combinations; beginning 1980, included with consoles.

Sources: Electronic Industries Association, Washington, D.C., *Electronic Market Data Book*, annual. (Copyright.)

NO. 959. PUBLISHING INDUSTRY—SUMMARY: 1972 TO 1981

(In millions of dollars, except as noted. Based on the censuses and surveys of manufactures; for details, see Appendix III)

ITEM	NEWSPAPERS			PERIODICALS			BOOKS		
	1972	1977	1981	1972	1977	1981	1972	1977	1981
Establishments, number	8,116	8,867	(NA)	2,535	2,994	(NA)	1,205	1,745	(NA)
With 20 or more employees	2,120	2,147	(NA)	453	525	(NA)	307	346	(NA)
Employees ¹ (1,000)	350	349	419	67	70	80	57	60	64
Payroll	3,168	4,306	6,289	709	1,020	1,564	558	830	1,123
Value of receipts	8,263	13,056	20,050	3,511	6,067	9,843	2,857	4,794	6,760
Cost of materials	2,044	3,539	5,793	1,404	2,289	3,790	960	1,544	2,166
Value added by manufacture ²	6,220	9,519	14,258	2,110	3,763	6,075	1,936	3,262	4,623
New capital expenditures	360	554	1,023	57	86	171	48	78	153
Fixed assets, gross value	3,639	5,026	8,037	586	725	1,135	512	680	958
Inventories, yearend	153	382	682	198	350	586	629	992	1,325

NA Not Available. ¹ Represents the average number of production workers plus the number of other employees in mid-March. ² Derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments. This result is then adjusted by the addition of value added by merchandising operations, plus the net change in finished goods and work-in-process inventories between the beginning and the end of the year.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1977*, Industry Reports, series MC 77-1-27A and *Annual Survey of Manufactures*, M81 (AS)-1.

NO. 960. NEWSPAPERS AND PERIODICALS: 1950 TO 1983

[Prior to 1960, excludes Alaska and Hawaii. Data refer to year of compilation of the Directory cited as the source, i.e., generally to year preceding year shown. See also *Historical Statistics, Colonial Times to 1970*, series R 232-243]

ITEM	1950	1955	1960	1965	1970	1975	1979	1980	1981	1982	1983
Newspapers ¹	12,115	11,415	11,315	11,383	11,383	11,400	9,827	9,620	9,676	9,183	9,206
Semiweekly	337	324	324	357	423	506	543	537	508	498	508
Weekly	9,794	9,126	8,979	8,989	8,903	8,824	7,357	7,159	7,238	6,806	6,855
Daily	1,884	1,860	1,854	1,843	1,838	1,819	1,744	1,744	1,747	1,740	1,735
Periodicals ¹	6,960	7,648	8,422	8,990	9,573	9,657	9,719	10,236	10,873	10,688	10,952
Weekly	1,443	1,602	1,580	1,716	1,856	1,918	1,764	1,716	1,921	1,672	1,626
Semi-monthly ²	416	503	527	550	589	537	594	645	667	689	724
Monthly	3,694	3,782	4,113	4,195	4,314	4,087	3,850	3,965	4,199	4,078	4,108
Bi-monthly	436	608	743	876	957	1,009	1,043	1,114	1,193	1,237	1,307
Quarterly	604	674	895	1,030	1,108	1,093	1,261	1,444	1,484	1,554	1,627

¹ Includes other not shown separately. ² Includes fortnightly (every two weeks).

Source: IMS Press, Fort Washington, Pa., *The IMS '83 Ayer Directory of Publications*, annual. (Copyright.)

No. 961. NEWSPRINT CONSUMPTION AND NEWSPAPER PAGES: 1960 TO 1982

[Consumption data for 1960 thru 1970 are predominately 32 lb. basis weight; beginning with 1975, data predominately 30 lb. basis weight. Metric ton = 1,102 short tons and 2,204.6 lbs. See table 1240 for additional newsprint data. See also *Historical Statistics, Colonial Times to 1970*, series R 218-223]

ITEM	Unit	1960	1965	1970	1975	1978	1979	1980	1981	1982
Newsprint consumption, total ¹	Mil. metric ton...	6.7	7.8	8.8	8.4	9.9	10.2	10.1	10.2	10.1
Per capita ²	Pound.....	82.1	88.9	95.2	85.9	98.3	100.1	98.0	98.1	98.2
By daily newspapers ¹	Mil. metric ton...	5.8	6.7	7.3	6.8	7.6	7.9	7.8	7.8	7.6
Price per metric ton ³	Dollar.....	144	144	179	287	353	413	440	500	469
Newspaper pages per issue: ⁴										
Daily.....	Number.....	43	50	47	57	⁵ 60	⁵ 64	66	64	67
Sunday.....	Number.....	142	167	145	180	⁵ 196	⁵ 207	208	210	236

¹ Estimated. ² Based on U.S. Bureau of the Census estimated resident population as of July 1.

³ General prices in the eastern U.S. in effect at end of year. ⁴ Source: Editor & Publisher Co., Inc., New York, N.Y., *Editor & Publisher*, weekly (copyright). ⁵ Based on data from Media Records, Inc.

Source: Except as noted, American Newspaper Publishers Association, Reston, Va., *Newsprint Statistics*, annual.

No. 962. NUMBER AND CIRCULATION OF DAILY AND SUNDAY NEWSPAPERS: 1950 TO 1982

[Prior to 1960, excludes Alaska and Hawaii. Number of newspapers as of the following dates: 1950-1960, Oct. 1; 1965, Jan. 1; 1970-1982, Feb. 1 of the following year, except 1977, as of Mar. 30 the following year. Circulation figures as of Sept. 30, except 1950-1965 as of Oct. 1. For English language newspapers only. See *Historical Statistics, Colonial Times to 1970*, series R 224-231]

ITEM	1950	1955	1960	1965	1970	1975	1977	1978	1979	1980	1981	1982
NUMBER OF NEWSPAPERS												
Daily: Total	1,772	1,760	1,763	1,751	1,748	1,756	1,753	1,756	1,763	1,745	1,730	1,711
Morning.....	322	316	312	320	334	339	352	355	382	387	408	434
Evening.....	1,450	1,454	1,459	1,444	1,429	1,436	1,435	1,419	1,405	1,388	1,352	1,310
Sunday.....	549	541	563	562	586	639	668	696	720	736	755	768
CIRCULATION (mil.)												
Daily: Total	53.8	56.1	58.9	60.4	62.1	60.7	61.5	62.0	62.2	62.2	61.4	62.5
Morning.....	21.3	22.2	24.0	24.1	25.9	25.5	26.7	27.7	28.6	29.4	30.6	32.2
Evening.....	32.6	34.0	34.9	36.3	36.2	35.2	34.8	34.3	33.6	32.8	30.9	29.3
Sunday.....	46.6	46.4	47.7	48.6	49.2	51.1	52.4	54.0	54.4	54.7	55.2	56.3

¹ Beginning 1955, all-day newspapers are counted in both morning and evening columns but only once in total. Circulation is divided equally between morning and evening.

Source: Editor & Publisher Co. Inc., New York, N.Y. *Editor & Publisher International Yearbook*, annual. (Copyright.)

**No. 963. NUMBER AND CIRCULATION OF DAILY NEWSPAPERS, BY POPULATION-SIZE CLASS OF CITY:
1960 TO 1982**

[Number of newspapers for 1960 as of Oct. 1; 1970-1982 as of February 1 of the following year. Circulation as of Sept. 1, except 1960 as of Oct. 1. For English language newspapers only. See table 28 for number of cities by population size]

TYPE OF DAILY AND POPULATION-SIZE CLASS	NUMBER ¹						NET PAID CIRCULATION ¹ (1,000)					
	1960	1970	1975	1980	1981	1982	1960	1970	1975	1980	1981	1982
Morning dailies, total	312	334	339	387	408	434	24,059	25,934	25,491	29,413	30,552	33,174
In cities of:												
1,000,001 or more.....	16	15	14	20	20	21	7,935	7,667	7,159	8,795	9,033	9,744
500,001 to 1,000,000.....	22	26	25	27	21	24	4,638	5,747	5,581	5,705	4,652	5,547
100,001 to 500,000.....	85	91	89	99	115	119	7,613	8,169	7,836	8,995	10,607	11,255
50,001 to 100,000.....	64	65	69	75	78	81	2,278	2,220	2,619	2,973	3,074	3,212
25,001 to 50,000.....	54	59	67	64	64	74	949	1,317	1,422	1,701	1,741	1,947
Less than 25,000.....	71	78	75	102	110	115	646	814	874	1,243	1,445	1,468
Evening dailies, total	1,459	1,429	1,436	1,388	1,352	1,310	34,911	36,231	35,166	32,788	30,879	29,313
In cities of:												
1,000,001 or more.....	17	12	12	11	9	9	5,021	4,716	4,156	2,984	2,299	2,310
500,001 to 1,000,000.....	26	24	24	23	18	17	5,375	4,807	4,573	4,101	2,641	2,352
100,001 to 500,000.....	116	129	127	123	128	120	9,676	10,034	8,918	8,178	8,917	8,122
50,001 to 100,000.....	158	178	175	156	152	145	4,501	5,221	5,379	4,896	4,692	4,474
25,001 to 50,000.....	256	250	248	246	262	248	4,345	4,766	4,698	5,106	5,266	5,029
Less than 25,000.....	686	636	650	629	783	771	5,993	6,687	7,242	7,523	7,064	7,026

¹ All-day newspapers are counted in both morning and evening columns; circulation is divided equally between morning and evening.

Source: Editor & Publisher Co., Inc., New York, N.Y. *Editor & Publisher International Yearbook*, annual. (Copyright.)

NO. 964. DAILY AND SUNDAY NEWSPAPERS—NUMBER AND CIRCULATION, BY STATES: 1982

[Number of newspapers as of Feb. 1 of the following year. Circulation figures as of Sept. 30. For English language newspapers only]

STATE	DAILY			SUNDAY		STATE	DAILY			SUNDAY	
	Number	Circulation ¹		Number	Net paid circulation (1,000)		Number	Circulation ¹		Number	Net paid circulation (1,000)
		Net paid (1,000)	Per capita ²					Net paid (1,000)	Per capita ²		
Total	1,711	62,487	.270	768	56,261	Mo.....	46	1,500	.303	19	1,394
Ala.....	27	734	.186	20	694	Mont.....	11	201	.250	8	202
Alaska.....	8	130	.297	2	105	Neb.....	19	479	.302	7	423
Ariz.....	19	656	.229	10	621	Nev.....	8	239	.272	5	250
Ark.....	32	487	.212	17	490	N.H.....	9	203	.213	3	101
Calif.....	120	6,028	.244	55	5,649	N.J.....	26	1,711	.230	17	1,737
Colo.....	28	954	.313	10	1,000	N. Mex.....	20	286	.210	14	264
Conn.....	25	901	.286	10	748	N.Y.....	76	8,205	.465	34	5,821
Del.....	3	154	.256	2	154	N.C.....	55	1,381	.229	25	1,171
D.C.....	3	1,343	2.128	1	972	N. Dak.....	10	193	.288	5	146
Fla.....	50	2,676	.257	33	2,862	Ohio.....	92	3,013	.279	29	2,600
Ga.....	37	1,032	.183	15	1,028	Okla.....	53	846	.267	43	877
Hawaii.....	7	253	.255	3	410	Oreg.....	20	647	.244	8	629
Idaho.....	14	214	.222	7	193	Pa.....	98	3,538	.298	21	2,915
Ill.....	75	2,756	.241	24	2,731	R.I.....	7	315	.329	2	253
Ind.....	76	1,603	.293	18	1,202	S.C.....	17	600	.187	8	522
Iowa.....	40	843	.290	9	722	S.Dak.....	12	170	.245	4	123
Kans.....	47	572	.238	18	499	Tenn.....	31	1,071	.230	16	1,032
Ky.....	25	737	.201	11	613	Tex.....	116	3,599	.236	97	4,128
La.....	25	799	.183	16	842	Utah.....	6	287	.185	6	375
Maine.....	9	288	.254	2	217	Vt.....	8	119	.231	3	81
Md.....	16	779	.183	5	662	Va.....	39	1,167	.213	15	874
Mass.....	45	2,004	.347	10	1,556	Wash.....	28	1,160	.273	18	1,161
Mich.....	52	2,492	.274	15	2,447	W. Va.....	25	468	.240	10	403
Minn.....	26	931	.225	11	994	Wis.....	35	1,205	.253	11	957
Miss.....	24	410	.161	12	333	Wyo.....	10	104	.207	4	76

¹ Circulation figures based on the principal community served by a newspaper which is not necessarily the same location as the publisher's office. ² Per capita based on total resident population estimated as of July 1, 1982.

Source: Editor & Publisher Co., Inc., New York, N.Y., *Editor & Publisher International Year Book*, annual. (Copyright.)

NO. 965. COPYRIGHT REGISTRATION, BY SUBJECT MATTER: 1970 TO 1982

[In thousands. For years ending June 30, except beginning 1978, ending Sept. 30. Comprises claims to copyright registered for both U.S. and foreign works. See also *Historical Statistics, Colonial Times to 1970*, series W 82-95]

SUBJECT MATTER OF COPYRIGHT	1970	1975	SUBJECT MATTER OF COPYRIGHT	1978 ²	1979	1980	1981	1982
Total	316.5	401.3	Total ³	415.7	429.0	464.7	471.1	468.1
Books.....	88.4	111.9	Monographs.....	112.9	122.8	119.2	119.0	118.3
Periodicals (issues).....	83.9	95.1	Serials.....	110.9	109.6	117.9	118.5	112.4
Contributions to newspapers, periodicals.....	1.9	2.6	Musical works.....	114.8	108.3	120.2	125.0	125.4
Lectures, sermons, addresses.....	1.7	1.9	Dramatic works, including any accompanying music.....	6.1	7.1	8.0	8.8	8.7
Dramatic or dramatico-musical compositions.....	3.4	4.9	Choreography and pantomimes.....	(2)	(2)	(2)	(2)	.1
Musical compositions.....	88.9	114.8	Motion pictures and filmstrips.....	8.5	5.7	8.5	7.8	7.6
Maps.....	1.9	1.8	Two-dimensional works of fine and graphic art, including prints and art reproductions.....	12.8	12.7	16.2	15.1	21.4
Works of art, models, or designs.....	6.8	11.0	Sculptural works.....	.8	2.4	2.9	2.5	1.9
Reproductions of works of art.....	3.0	5.0	Technical drawings and models.....	1.0	1.5	.8	.7	.8
Scientific or technical drawings.....	.0	.9	Photographs.....	1.4	1.2	1.2	1.3	.8
Photographs, prints, and illustrations.....	4.5	6.6	Cartographic works.....	1.2	1.7	.8	.9	.5
Commercial prints and labels.....	5.3	4.7	Commercial prints and labels.....	7.3	2.6	4.7	6.7	5.7
Motion picture photoplays.....	1.2	1.0	Works of applied art.....	6.1	13.2	14.2	12.5	11.2
Motion pictures not photoplays.....	(x)	2.0	Sound recordings.....	9.1	10.7	12.8	13.5	13.9
Sound recordings ¹	(x)	8.9	Multimedia works.....	.6	1.3	2.0	2.1	2.3
Renewals of all classes.....	23.3	28.2	Machine readable works.....	.6	1.2	1.9	2.1	2.7
			Renewals.....	21.2	27.0	33.0	34.2	36.3

X Not applicable. Z Less than 50. ¹ Registrations began in 1972. ² Extrapolated from 11 months. Includes 50,000 registrations in-process but not completed on Sept. 30, 1978. ³ Due to a change in the copyright law, data for 1978 and later years are not comparable with previous years.

Source: The Library of Congress, *Annual Report*.

NO. 966. ADVERTISING—ESTIMATED EXPENDITURES: 1950 TO 1982

[In millions of dollars. See also *Historical Statistics, Colonial Times to 1970*, series T 444-446]

YEAR	Total	National	Local	YEAR	Total	National	Local	YEAR	Total	National	Local
1950	5,700	3,260	2,440	1971	20,700	11,755	8,945	1977	37,440	20,595	16,845
1955	9,150	5,380	3,770	1972	23,210	12,980	10,230	1978	43,330	23,720	19,610
1960	11,960	7,305	4,655	1973	24,980	13,700	11,280	1979	48,780	26,695	22,085
1965	15,250	9,340	5,910	1974	26,620	14,700	11,920	1980	53,550	29,815	23,735
1969	19,420	11,400	8,020	1975	27,900	15,200	12,700	1981	60,430	33,890	26,540
1970	19,550	11,350	8,200	1976	33,300	18,355	14,945	1982, prel	66,580	37,785	28,795

Source: McCann-Erickson, Inc., New York, N.Y. Compiled for Crain Communications, Inc. In *Advertising Age* (copyright).NO. 967. ADVERTISING—INDEXES OF NATIONAL ADVERTISING EXPENDITURES, BY MEDIUM:
1950 TO 1982[1967=100. Based on the average monthly expenditure for those major media which give national coverage. See also *Historical Statistics, Colonial Times to 1970*, series T 472-484]

MEDIUM	1950	1955	1960	1965	1970	1975	1977	1978	1979	1980	1981	1982
General Index	25	49	67	90	112	143	205	236	269	298	333	369
Network television.....	6	38	56	85	114	158	238	273	316	353	383	457
Spot television.....	3	26	53	90	125	164	223	261	291	330	378	441
Magazines.....	38	56	73	93	104	118	174	209	236	253	284	298
Weeklies.....	40	61	81	94	95	94	139	178	204	218	245	255
Women's.....	46	57	65	95	107	130	200	238	259	277	302	321
Monthlies.....	28	43	64	90	120	155	222	246	280	304	347	368
Newspapers.....	61	84	92	93	105	131	174	182	209	232	267	290

Source: McCann-Erickson, Inc., New York, N.Y. Compiled for Crain Communications, Inc. In *Advertising Age* (copyright).

NO. 968. ADVERTISING—ESTIMATED EXPENDITURES, BY MEDIUM: 1965 TO 1982

[In millions of dollars, except percent. See text, page 553 for a discussion of types of advertising. See also *Historical Statistics, Colonial Times to 1970*, series R 106-109, R 123-126, and T 444-471]

MEDIUM	EXPENDITURES								PERCENT				
	1965	1970	1975	1978	1979	1980	1981	1982, prel.	1965	1970	1975	1980	1982, prel.
Total	15,250	19,550	27,900	43,330	48,780	53,550	60,430	66,580	100.0	100.0	100.0	100.0	100.0
National	9,340	11,350	15,200	23,720	26,695	29,815	33,890	37,785	61.2	58.1	54.5	55.7	56.8
Local	5,910	8,200	12,700	19,610	22,085	23,735	26,540	28,795	38.8	41.9	45.5	44.3	43.2
Newspapers	4,426	5,704	8,234	12,214	13,863	14,794	16,528	17,694	29.0	29.2	29.5	27.7	26.6
National	784	891	1,109	1,541	1,770	1,963	2,259	2,452	5.1	4.6	4.0	3.7	3.7
Local	3,642	4,813	7,125	10,673	12,093	12,831	14,269	15,242	23.9	24.6	25.5	24.0	22.9
Magazines	1,161	1,292	1,465	2,597	2,932	3,149	3,533	3,710	7.6	6.6	5.2	5.9	5.6
Weeklies	610	617	612	1,158	1,327	1,418	1,598	1,659	4.0	3.2	2.2	2.6	2.5
Women's	269	301	368	672	730	782	853	904	1.8	1.5	1.3	1.5	1.4
Monthlies	282	374	485	767	875	949	1,082	1,147	1.8	1.9	1.7	1.8	1.7
Farm publications	71	62	74	104	120	130	146	149	.5	.3	.3	.2	.2
Television	2,515	3,596	5,263	9,955	10,154	11,366	12,650	14,329	16.5	18.4	18.9	21.2	21.5
Spot	1,237	1,658	2,308	3,975	4,599	5,130	5,575	6,210	8.1	8.5	8.3	9.6	9.3
Local	892	1,234	1,823	2,607	2,873	3,269	3,730	4,360	5.9	6.3	5.6	6.1	6.6
Radio	386	704	1,334	2,373	2,682	2,967	3,345	3,759	2.5	3.6	4.8	5.5	5.8
Network	917	1,308	1,980	3,052	3,310	3,702	4,230	4,670	6.0	6.7	7.1	6.9	7.0
Spot	60	56	83	147	161	183	230	255	.4	.3	.3	.3	.4
Local	275	371	436	620	665	779	879	923	1.8	1.9	1.6	1.5	1.4
Direct mail	582	881	1,461	2,285	2,484	2,740	3,129	3,492	3.8	4.5	5.2	5.1	5.2
Business papers	2,324	2,766	4,124	5,987	6,653	7,596	8,944	10,319	15.2	14.1	14.8	14.2	15.5
Outdoor	671	740	919	1,400	1,575	1,674	1,841	1,876	4.4	3.8	3.3	3.1	2.8
National	180	234	335	466	540	578	650	721	1.2	1.2	1.2	1.1	1.1
Local	120	154	220	307	355	364	419	465	.8	.8	.8	.7	.7
Miscellaneous	60	80	115	159	185	214	231	256	.4	.4	.4	.4	.4
National	2,985	3,848	5,506	8,555	9,633	10,561	11,908	13,113	19.6	19.7	19.7	19.7	19.7
Local	1,745	2,126	2,841	4,435	4,992	5,578	6,334	7,067	11.5	10.9	10.2	10.4	10.6
Local	1,240	1,722	2,665	4,120	4,641	4,983	5,574	6,046	8.1	8.8	9.5	9.3	9.1

Source: McCann-Erickson, Inc., New York, N.Y. Compiled for Crain Communications, Inc. In *Advertising Age* (copyright). Percentages derived by U.S. Bureau of the Census.

NO. 969. TELEVISION—EXPENDITURES FOR NETWORK ADVERTISING: 1975 TO 1982

[In millions of dollars. See text, page 553 for a definition of network advertising]

TYPE OF PRODUCT	1975	1980	1981 ¹	1982 ¹	TYPE OF PRODUCT	1975	1980	1981 ¹	1982 ¹
Expenditures	2,431	5,147	5,593	6,232	Horticulture.....	7	15	14	18
Apparel, footwear, and accessories.....	55	131	155	160	Household equip., supplies, and furnishings.....	134	225	243	239
Automotive.....	242	529	509	596	Insurance.....	40	74	76	73
Beer and wine.....	70	242	267	303	Jewelry and cameras ²	42	119	120	151
Bldg. material, equipment, fixtures.....	24	59	65	70	Laundry soaps, cleansers, and polishes.....	204	306	314	322
Confectionery, soft drinks.....	85	281	283	300	Office equipment, stationery, and supplies.....	22	57	86	129
Consumer services.....	51	178	129	157	Pet products.....	67	144	142	149
Dept. and discount stores.....	56	94	111	144	Proprietary medicines.....	273	430	488	529
Entertainment and amusement.....	66	235	254	280	Publishing and media.....	8	34	37	76
Food and food products.....	403	844	897	995	Tobacco products and supplies.....	20	6	15	7
Freight and industrial development.....	-	7	20	24	Toiletries and toilet goods.....	415	765	852	897
Gas, lubricants, etc.....	44	71	79	55	Toys and sporting goods.....	42	93	102	100
Home electronics equipment.....	17	50	101	164	Travel, hotels, and resorts.....	21	53	39	73
					All other.....	23	103	195	221

- Represents zero. ¹ Retail store advertising on network television has been separated from national product categories in 1982. Data for 1981, has been restated. ² Includes optical goods.

NO. 970. TELEVISION—ESTIMATED TIME CHARGES FOR SPOT ADVERTISING: 1975 TO 1982

[In millions of dollars. Data represent activity in the 75 markets monitored by Broadcast Advertisers Reports, Inc. (BAR), covering approximately 289 stations. See text, page 553 for a definition of types of advertising]

TYPE OF PRODUCT	1975	1980 ¹	1981 ¹	1982 ¹	TYPE OF PRODUCT	1975	1980 ¹	1981 ¹	1982 ¹
Estimated time charges	1,245	2,496	2,847	3,342	Household equipment and supplies, furnishings.....	76	133	144	151
Agriculture and farming.....	6	15	18	21	Insurance.....	18	34	48	51
Apparel, footwear, and accessories.....	34	105	108	96	Jewelry, optical goods, and cameras.....	11	55	56	53
Automotive.....	103	228	285	361	Laundry soaps, polishes.....	70	111	116	157
Beer and wine.....	50	156	182	205	Office equipment, stationery, and supplies.....	5	15	20	52
Building material, equipment, and fixtures.....	17	47	57	53	Pet products.....	36	33	37	55
Confectionery, soft drinks.....	99	212	252	266	Proprietary medicines.....	71	93	102	107
Consumer services.....	37	83	97	140	Publishing and media.....	24	78	81	97
Food and food products.....	283	507	581	705	Tobacco prod., supplies.....	3	8	12	11
Freight and industrial development.....	2	5	12	41	Toiletries and toilet goods.....	115	223	225	222
Gasoline, lubricants, etc.....	20	50	84	90	Toys and sporting goods.....	57	104	109	120
Home electronics equipment.....	59	73	77	108	Travel, hotels, and resorts.....	36	76	90	121
Horticulture.....	8	² 35	² 34	² 32	All other.....	5	17	20	27

¹ Beginning 1980, some advertising previously identified as local is classified as spot. Therefore, data not strictly comparable with 1975. ² Due to a definition change, data not strictly comparable with 1975.

NO. 971. TELEVISION—EXPENDITURES FOR RETAIL/LOCAL ADVERTISING: 1975 TO 1982

[In millions of dollars. See headnote, table 970]

TYPE OF PRODUCT	1975	1980 ¹	1981 ¹	1982 ¹	TYPE OF PRODUCT	1975	1980 ¹	1981 ¹	1982 ¹
Expenditures	841	1,983	2,269	2,578	Home building construction, building supplies.....	13	35	43	47
Amusements, entertainment.....	23	68	79	91	Hotels, resorts, U.S.....	8	18	24	37
Appliance stores, repair.....	16	38	47	50	Jewelry stores.....	7	19	23	23
Auto repair, serv. stations.....	7	28	34	44	Luggage, time stores and services.....	15	42	60	75
Auto supply, accessory stores.....	6	12	25	30	Loan, mortgage companies.....	10	12	13	12
Auto, truck dealers.....	45	99	113	121	Mail order, catalog showrooms.....	3	13	15	18
Banks, S&L associations.....	85	141	158	155	Medical, dental services.....	2	13	22	28
Builders, real estate.....	14	26	24	25	Movies.....	59	102	99	90
Carpet, floor covering stores.....	12	24	28	26	Newspapers.....	6	15	18	19
Clothing stores.....	19	46	50	55	Optical services, supplies.....	3	14	11	13
Department stores.....	87	131	139	141	Political.....	7	70	20	116
Discount dept. stores.....	34	74	85	78	Radio, TV stations.....	(NA)	69	99	120
Drug stores.....	10	26	34	45	Rental services (non-auto).....	2	15	19	24
Education services.....	9	17	20	27	Restaurants, drive-ins.....	115	288	351	406
Food stores, supermarkets.....	71	149	175	193	Shoe stores.....	5	27	28	28
Furniture stores.....	43	111	118	113	Shopping centers, ass'n's.....	6	13	14	15
Gas, electric, water companies.....	9	16	21	24	Sport, hobby, toy stores.....	8	23	35	39
Hardware stores.....	5	19	21	23	All other.....	70	149	175	199
Health clubs, reducing salons.....	7	21	29	28					

NA Not available. ¹ Beginning 1980, some advertising previously identified as local is classified as spot; therefore, data not strictly comparable with 1975.

Source of tables 969-971: Television Bureau of Advertising, Inc., New York, N.Y., from data compiled by Broadcast Advertisers Reports, Inc., New York, N.Y.

NO. 972. NEWSPAPER ADVERTISING—EXPENDITURES FOR 64 CITIES: 1957 TO 1981

[In millions of dollars. Based on stratified random sample of 64 cities of different size, including suburban and central city newspapers]

TYPE OF ADVERTISING	1957	1970	1974	1975	1976	1977	1978	1979	1980	1981
Total	1,611	3,120	3,045	4,117	5,352	5,696	6,666	7,641	8,186	9,575
Automotive.....	63	93	109	93	127	145	151	196	182	226
Classified.....	313	724	967	982	1,342	1,522	1,892	2,179	2,196	2,515
Financial.....	42	117	135	131	148	147	203	244	297	387
General.....	326	426	514	547	731	752	827	982	1,122	1,380
Retail.....	866	1,759	2,120	2,364	3,005	3,129	3,593	4,040	4,389	5,066

Source: Compiled by Media Records, Inc. 1981 data in U.S. Bureau of Economic Analysis, *Survey of Current Business*, monthly.

NO. 973. NEWSPAPER ADVERTISING—EXPENDITURES FOR NATIONAL ADVERTISING, BY TYPE OF PRODUCT: 1975 TO 1981

[In millions of dollars. Data are compiled on basis of actual space measurements of bulk of national advertising carried by weekday and Sunday newspapers. Excludes production costs]

TYPE OF PRODUCT	1975	1979	1980	1981	TYPE OF PRODUCT	1975	1979	1980	1981
Total	1,142.1	1,950.4	2,184.1	2,556.3	Industrial.....	13.9	29.0	40.7	57.2
Alcoholic beverages.....	72.2	89.2	102.9	95.0	Insurance.....	20.2	34.0	36.4	40.7
Liquors.....	64.2	75.2	86.5	80.0	Jewelry, watches, silverware.....	3.2	6.1	8.1	8.8
Amusements.....	6.2	12.6	11.8	12.6	Mail order.....	41.9	54.4	60.6	73.0
Automotive.....	175.7	336.9	313.1	369.4	Medical products, drugs.....	12.9	20.4	22.9	24.0
New passenger cars.....	129.6	246.7	226.2	281.1	Pets and pet supplies.....	8.4	9.2	8.9	8.9
Cameras, photo supplies and services.....	10.0	13.2	14.9	16.5	Political.....	5.2	8.3	26.7	10.0
Educational.....	10.0	20.8	24.5	28.5	Professional and services ¹	5.6	6.4	9.0	11.7
Farm and garden.....	18.5	27.0	29.7	29.5	Public service utilities and communications.....	19.2	37.6	50.6	56.5
Foods.....	131.1	167.5	166.3	179.4	Publishing ²	83.4	154.9	177.7	197.7
Franchise offers.....	3.0	5.3	5.3	5.9	Books.....	21.9	32.2	32.8	38.3
Help wanted.....	10.3	55.2	58.7	68.6	Radio and TV.....	48.4	102.9	122.4	132.7
Home heat, and equipment.....	2.9	8.0	13.3	14.6	Real estate.....	8.8	11.0	16.5	21.0
Hotels and resorts.....	44.1	67.9	78.3	105.1	Sporting equipment ³	6.9	6.9	7.6	13.5
Household furniture and furnishings.....	7.4	9.9	13.1	13.4	Tobacco.....	148.1	293.7	313.8	391.3
Household supplies.....	24.8	36.6	41.8	40.1	Toiletries, toilet goods.....	16.1	27.9	30.9	32.5
Household, equip., and appl.....	30.4	46.7	53.0	67.6	Transportation.....	154.7	235.5	296.8	369.2
					Airlines.....	97.8	147.6	186.8	226.1
					Wearing apparel.....	20.2	31.2	31.4	40.3
					All other.....	26.9	87.4	118.9	154.0

¹ Includes associations (American Medical, etc.), art galleries, ad agencies own advertising, research firms, etc.

² Includes other media not shown separately. ³ Includes leisure time equipment.

Source: Media Records, Inc., New York, N.Y., *Marketing and Media Decisions*, June 1982.

NO. 974. MAGAZINE ADVERTISING—EXPENDITURES, BY PRODUCT: 1970 TO 1982

[In millions of dollars, except percent. Space cost based on one-time rate; special rates used where applicable. Year-to-year data not strictly comparable, as a few minor publications are added or deleted]

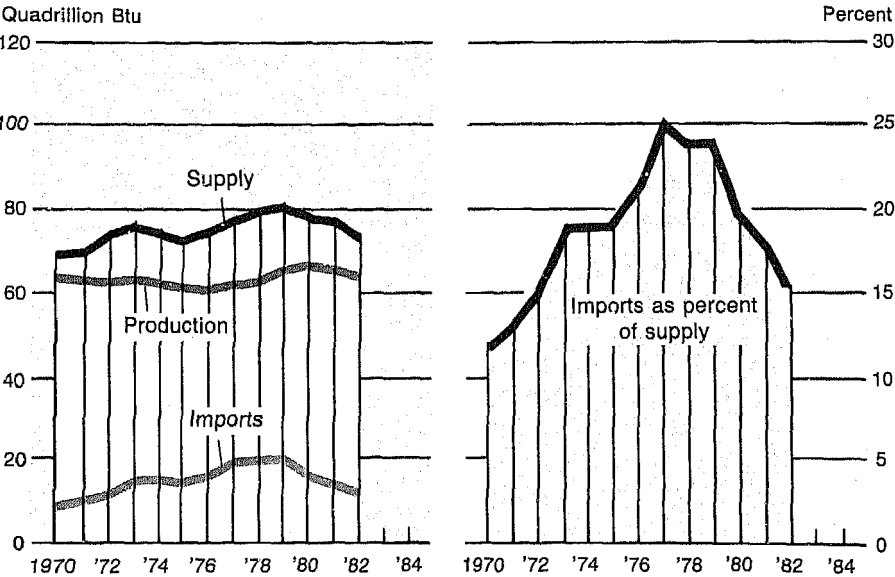
TYPE OF PRODUCT	1970	1975	1979	1980	1981	1982	PERCENT DISTRIBUTION		
							1970	1975	1982
Expenditures	1,181	1,336	2,671	2,846	3,223	3,421	100.0	100.0	100.0
Apparel, footwear, and accessories ¹	51	47	92	112	141	154	4.3	3.5	4.5
Automotive, incl. accessories and equipment ¹	95	102	224	229	290	333	8.0	7.6	9.7
Beer, wine, and liquor.....	94	101	236	239	251	258	8.3	7.6	7.5
Consumer services ^{1, 2}	78	102	172	190	206	232	6.3	7.8	6.8
Drugs and remedies.....	38	34	71	78	88	89	3.2	2.5	2.6
Food and food products.....	86	87	186	199	213	240	7.3	6.5	7.0
Household equipment and supplies ¹	33	25	67	65	82	86	2.8	1.9	1.9
Household furnishings ¹	38	31	64	73	83	81	3.2	2.3	2.4
Industrial materials ¹	44	34	70	71	67	51	3.7	2.6	1.5
Insurance.....	26	22	53	56	56	56	2.2	1.7	1.6
Radios, TV's, phonos, musical instruments ³	38	35	80	84	108	96	3.2	2.6	2.8
Smoking materials.....	65	144	281	290	314	358	5.5	10.8	10.5
Toiletries and toilet goods ¹	119	106	198	206	230	241	10.1	7.9	7.0
Travel, hotels, and resorts.....	50	65	110	123	137	153	4.2	4.9	4.5
All other (incl. retail and/or direct-mail) ¹	326	402	767	831	957	1,013	27.6	30.1	29.7

¹ Due to classification changes, 1970, data not comparable with later years. ² Includes business services.

³ Includes accessories.

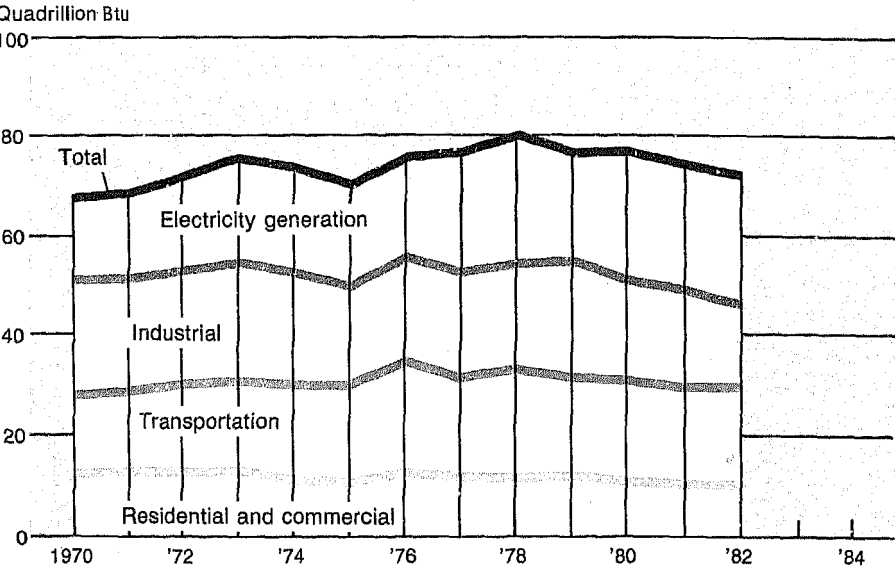
Source: Magazine Publishers Association, Inc., New York, N.Y., from data compiled by Publishers Information Bureau, Inc.

Figure 20.1
Energy Production, Consumption, and Imports: 1970 to 1982

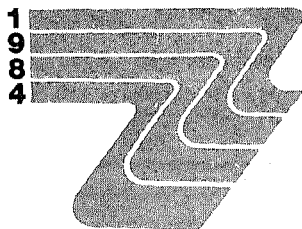


Source: Chart prepared by U.S. Bureau of the Census. For data, see table 977.

Figure 20.2
Primary Energy Resources—Consumption by Major Consumer Group:
1970 to 1982



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 980.



This section presents statistics on fuel resources, energy production and consumption, electric energy, hydropower, nuclear power, and the electric and gas utility industries. The principal sources are the U.S. Department of Energy's Energy Information Administration (EIA), the Edison Electric Institute, Washington, D.C., and the American Gas Association, Arlington, Va. The Department of Energy was created in October 1977 and assumed and centralized the responsibilities of all or part of several agencies including the Federal Power Commission (FPC), the U.S. Bureau of Mines, the Federal Energy Administration, and the U.S. Energy Research and Development Administration. For additional data on transportation, see Section 22; on fuels, see Section 27; and on energy-related housing characteristics, see Section 28.

The EIA, in its *Annual Energy Review*, provides statistics and trend data on energy supply, demand, and prices. Information is included on petroleum and natural gas, coal, electricity, hydropower, nuclear power, and solar and geothermal energy. Among its annual reports are *Statistics of Privately Owned Electric Utilities in the United States*; *Statistics of Publicly Owned Electric Utilities in the United States*; *Electric Power Annual*; *Thermal Electric Plant Construction Cost and Annual Production Expenses*; *Hydroelectric Plant Construction Cost and Production Expenses*; *State Energy Data Report*; *Statistics for Interstate Natural Gas Pipeline Companies*; *Petroleum Supply Annual*; *Natural Gas Annual*, and *Coal Production*. These various publications contain national and State data on production of electricity, capacity of generating plants, fuels used in energy production, energy sales and consumption, hydroelectric power, construction costs and production expenses of power plants, and depreciation practices. The EIA also issues the *Monthly Energy Review*, which presents current supply, disposition, and price data, and separate weekly and monthly publications on petroleum, coal, natural gas, and electric power. Data on residential energy consumption, expenditures, and conservation activities are available from EIA's Residential Energy Consumption Survey and are published in *Residential Energy Consumption Survey: Consumption and Expenditures*, and *Residential Energy Consumption Survey: Conservation*, and several other reports. A new EIA publication, *Energy Price and Expenditure Data Report (State and U.S. Total)* provides total consumer expenditures and price comparisons in dollars per unit of energy.

The Edison Electric Institute's monthly bulletin and annual *Statistical Year Book of the Electric Utility Industry for the Year* contain data on the distribution of electric energy by public utilities; information on the electric power supply, expansion of electric generating facilities, and the manufacture of heavy electric power equipment is presented in the annual *Year End Summary of the Electric Power Situation in the United States*. The American Gas Association, in its monthly and quarterly bulletins and its yearbook, *Gas Facts*, presents data on gas utilities, including sales, revenues, customers, prices, and other financial and operating statistics. A wide range of petroleum statistics are provided in the American Petroleum Institute publication *Basic Petroleum Data Book*.

Btu conversion factors.—Various energy sources are converted from original units (e.g., short tons, cubic feet, barrels, kilowatt-hours) to the thermal equivalent using British thermal units (Btu). A Btu is the amount of energy required to raise the temperature of 1 pound of water 1 degree Fahrenheit at or near 39.2 degrees F. Factors are calculated annually from the latest final annual data available; some are revised as a result. The following list provides conversion factors used in 1981 and 1982 for production and consumption, in that order, for various fuels: Petroleum, 5,800 and 5,448 mil. Btu per barrel; bituminous coal and lignite, 22.38 and 21.80 mil. Btu per short ton; and anthracite coal 23.69 and 22.10 mil. Btu per short ton; natural gas, 1,015 and 1,027 Btu per cubic foot. The factors for the production of hydropower, nuclear power, and geothermal power were 10,388, 10,908, and 21,594 Btu per kilowatt-hour, respectively.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

NO. 975. TOTAL HORSEPOWER OF ALL PRIME MOVERS: 1950 TO 1981

[In millions, except percent. As of January, except as noted. Prior to 1960, excludes Alaska and Hawaii, except as noted. Prime movers are mechanical engines and turbines, and work animals, which originally convert fuels or force (as wind or falling water) into work and power. Electric motors, which obtain their power from prime movers, are excluded to avoid duplication. See also *Historical Statistics, Colonial Times to 1970*, series S 1-14.]

YEAR	Total horse- power	AUTOMOTIVE ^{1 2}		NONAUTOMOTIVE							
		Total	Per- cent of total	Total	Fac- tories ³	Mines ³	Rail- roads ⁴	Mer- chant ships and sailing vessels	Farms	Elec- tric cen- tral sta- tions ²	Air- craft ^{4 5}
1950.....	4,868	4,404	90.5	464	33	22	111	^a 23	165	88	^a 22
1955.....	7,159	6,632	92.7	526	36	31	60	^a 24	212	138	^a 26
1960.....	11,008	10,367	94.2	641	42	35	47	24	240	217	37
1965.....	15,096	14,306	94.8	790	48	40	44	24	272	307	55
1970.....	20,408	19,325	94.7	1,083	54	45	54	22	290	435	183
1972.....	22,913	21,736	94.9	1,175	57	46	57	21	305	508	181
1973.....	24,262	23,029	94.9	1,233	58	46	57	20	308	562	182
1974.....	24,516	23,224	94.7	1,292	59	46	61	21	315	605	185
1975.....	25,100	23,752	94.6	1,348	60	47	62	22	318	654	185
1976.....	25,732	24,339	94.6	1,393	61	47	64	22	324	692	184
1977.....	26,469	25,025	94.5	1,444	62	47	62	23	328	728	194
1978.....	27,379	25,892	94.6	1,487	63	48	64	25	[†] 335	754	198
1979.....	28,162	26,617	94.5	1,545	63	48	62	26	342	803	201
1980.....	28,922	27,362	94.6	1,564	64	48	63	28	345	806	210
1981.....	29,507	27,909	94.6	1,598	64	48	65	29	345	835	212

¹ Includes passenger cars, trucks, buses, and motorcycles. ² As of July 1. ³ Beginning 1965, data are estimates. ⁴ Beginning 1965, not strictly comparable with earlier years. ⁵ Includes private planes and commercial airlines. ⁶ Includes Alaska and Hawaii. ⁷ Includes estimates of about 3.0 million hp. in work animals and 30,000 in windmills.

Source: 1950 and 1955, *The Twentieth Century Fund*, New York, N.Y., J.F. Dewhurst and Associates, *America's Needs and Resources, A New Survey*, and John A. Waring, *Transactions of Canadian Sectional Meeting, World Power Conference, 1956*. Beginning 1960, John A. Waring, Murfreesboro, N.C., unpublished estimates.

NO. 976. MINERAL FUEL RESOURCES AND ELECTRICITY—PRODUCTION AND CONSUMPTION, BY MAJOR SOURCE: 1950 TO 1982

[A British thermal unit (Btu) is the quantity of heat required to raise the temperature of 1 pound of water 1°F at or near its point of maximum density. Prior to 1960, excludes Alaska and Hawaii, except data for bituminous coal include Alaska for all years. For Btu conversion factors, see text, p. 571. See also *Historical Statistics, Colonial Times to 1970*, series M 76-92.]

YEAR	Total production (quad. Btu)	PERCENT OF PRODUCTION				Total consumption (quad. Btu)	PERCENT OF CONSUMPTION				Consumption/production ratio
		Coal	Petroleum ¹	Natural gas ²	Electricity ³		Coal	Petroleum ¹	Natural gas ²	Electricity ³	
1950.....	34.5	42.7	33.4	20.0	3.9	33.6	38.1	39.8	18.1	4.0	.97
1955.....	39.1	32.6	37.0	27.0	3.4	39.2	29.1	44.2	23.3	3.5	1.00
1960.....	41.8	26.7	35.7	33.8	3.8	44.1	22.8	45.1	28.5	3.6	1.06
1961.....	42.3	25.4	36.0	34.7	3.9	44.7	21.9	45.2	29.2	3.7	1.06
1962.....	43.9	25.5	35.4	35.0	4.1	46.8	21.5	44.9	29.8	3.8	1.07
1963.....	46.2	26.4	34.6	35.2	3.8	48.6	21.7	44.5	30.1	3.6	1.05
1964.....	48.0	26.8	33.6	35.7	3.9	50.8	22.0	43.7	30.6	3.7	1.06
1965.....	49.7	27.0	33.3	35.6	4.2	53.0	22.3	43.6	30.2	3.9	1.07
1966.....	52.5	26.4	33.5	36.2	4.0	56.0	22.3	45.2	30.4	2.1	1.07
1967.....	55.4	25.7	33.7	36.3	4.3	57.9	21.0	43.5	31.3	4.1	1.05
1968.....	57.1	24.4	33.7	37.6	4.3	61.3	20.5	43.8	31.7	4.0	1.07
1969.....	59.4	24.0	32.9	38.5	4.7	64.5	19.6	43.8	32.4	4.3	1.09
1970.....	62.5	24.3	32.6	38.6	4.5	66.8	18.9	44.0	32.8	4.3	1.07
1971.....	61.7	22.0	32.5	40.2	5.3	68.3	17.6	44.7	32.9	4.7	1.11
1972.....	62.8	23.1	31.9	39.5	5.5	71.6	17.3	46.0	31.7	4.9	1.14
1973.....	62.4	23.0	31.2	39.7	6.1	74.6	17.8	46.7	30.2	5.2	1.20
1974.....	61.2	23.7	30.4	39.7	7.2	72.8	17.7	45.0	29.9	7.4	1.19
1975.....	60.1	25.6	29.5	36.6	8.4	70.7	18.2	46.4	28.3	7.2	1.18
1976.....	60.1	26.5	28.7	36.3	8.5	74.5	18.4	47.2	27.3	7.1	1.24
1977.....	60.3	26.3	28.9	36.3	8.5	76.3	18.3	48.7	26.1	6.9	1.27
1978.....	61.2	24.6	30.1	35.5	9.8	78.2	17.7	48.6	25.6	8.1	1.28
1979.....	63.9	27.6	28.4	35.0	9.0	78.9	19.1	47.0	26.2	7.6	1.24
1980.....	64.8	28.8	28.2	34.2	8.9	76.0	20.3	45.0	26.8	7.8	1.17
1981.....	64.4	28.6	28.2	34.1	9.1	74.0	21.6	43.2	26.9	8.3	1.15
1982, prel.....	63.6	29.0	28.9	32.0	10.1	70.9	21.7	42.8	26.0	9.5	1.12

¹ Production includes crude oil and lease condensate. Consumption includes domestically produced crude oil, natural gas liquids, and lease condensate, plus imported crude oil and products. ² Production includes natural gas liquids; consumption excludes natural gas liquids. ³ Comprised of hydropower, nuclear power, geothermal energy and other.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

NO. 977. ENERGY SUPPLY AND DISPOSITION, BY TYPE OF FUEL: 1960 TO 1982

(In quadrillion British thermal units (Btu), except percent. For Btu conversion factors, see text, p. 571)

TYPE OF FUEL	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982, prel.
Total supply ¹	45.6	54.9	69.5	76.7	75.0	73.1	76.7	78.4	80.1	81.8	79.7	78.3	75.6
Production	41.8	49.7	62.5	62.4	61.2	60.1	60.1	60.3	61.2	63.9	64.8	64.4	63.6
Crude oil ²	14.9	16.5	20.4	19.5	18.6	17.7	17.3	17.5	18.4	18.1	18.3	18.2	18.4
Natural gas liquids	1.5	1.9	2.5	2.6	2.5	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.2
Natural gas ³	12.7	15.8	21.7	22.2	21.2	19.6	19.5	19.6	19.5	20.1	19.9	19.7	18.1
Coal	11.1	13.4	15.1	14.4	14.5	15.2	15.9	15.8	15.0	17.7	18.6	18.4	18.4
Nuclear power	(2)	(2)	.2	.9	1.3	1.9	2.1	2.7	3.0	2.7	2.7	3.0	3.1
Hydropower	1.6	2.1	2.6	2.9	3.2	3.2	3.0	2.3	2.9	2.9	2.9	2.7	3.3
Geothermal and other	(2)	(2)	(2)	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
Imports ⁴	4.2	5.9	8.4	14.7	14.4	14.1	16.8	20.1	19.3	19.6	16.0	13.9	12.0
Percent of supply	9.3	10.8	12.1	19.2	19.2	19.3	21.9	25.6	24.0	24.0	20.0	17.8	15.8
Crude oil	2.2	2.7	2.8	6.9	7.4	8.7	11.2	14.0	13.5	13.9	11.2	9.3	7.4
Refined petroleum products ⁵	1.8	2.8	4.7	6.6	5.7	4.2	4.4	4.7	4.4	4.1	3.5	3.3	3.3
Natural gas	.2	.5	.9	1.1	1.0	1.0	1.0	1.0	1.0	1.3	1.0	.9	1.0
Total disposition	45.6	54.9	69.5	76.7	75.0	73.1	76.7	78.4	80.1	81.8	79.7	78.3	75.6
Consumption	44.1	53.0	66.8	74.6	72.8	70.7	74.5	76.3	78.2	78.9	76.0	74.0	70.9
Refined petroleum products	19.9	23.3	29.5	34.8	33.5	32.7	35.2	37.1	38.0	37.1	34.2	31.9	30.3
Natural gas	12.4	15.8	21.8	22.5	21.7	20.0	20.4	19.9	20.0	20.7	20.4	19.9	18.4
Coal	10.1	11.9	12.7	13.3	12.9	12.8	13.7	14.0	13.9	15.1	15.5	16.0	15.4
Nuclear power	(2)	(2)	.2	.9	1.3	1.9	2.1	2.7	3.0	2.7	2.7	3.0	3.1
Hydropower ⁶	1.7	2.1	2.7	3.0	3.3	3.2	3.1	2.5	3.1	3.1	3.1	3.1	3.6
Geothermal and other	(2)	(2)	(2)	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
Exports	1.5	1.9	2.7	2.1	2.2	2.4	2.2	2.1	2.0	2.9	3.7	4.3	4.6
Coal	1.0	1.4	1.9	1.5	1.6	1.8	1.6	1.5	1.1	1.8	2.4	2.9	2.8

Z Less than .50 trillion. ¹ Includes adjustments for stock changes, losses, gains, and miscellaneous changes, not shown separately. ² Includes lease condensate. ³ Dry marketed gas. ⁴ Includes other types, not shown separately. ⁵ Includes imports of unfinished oils and natural gas liquids. ⁶ Includes industrial generation and net electricity imports.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

NO. 978. SELECTED ENERGY INDICATORS—SUMMARY: 1950 TO 1982

(Btu=British thermal unit. For Btu conversion factors, see text, p. 571)

YEAR	ANNUAL AVERAGE PERCENT CHANGE ¹								PER CAPITA ² (mil. Btu)		Con- sumption per dollar GNP ³ (1,000 Btu)	
	Energy production				Energy consumption				GNP ⁴	Energy pro- duction		Energy con- sumption
	Total ⁵	Crude oil ⁶	Natural gas ⁴	Coal	Total ²	Re- fined petro- leum products	Natural gas (dry)	Coal				
1950.....	12.4	7.2	15.8	16.7	8.2	12.1	15.9	2.3	10.9	227	223	63.4
1955.....	2.5	4.7	8.4	-2.7	3.1	5.3	8.6	-2.3	6.9	237	240	60.4
1960.....	1.3	.7	6.3	-2.7	2.4	2.9	6.6	-2.7	4.8	232	245	59.8
1965.....	3.5	2.0	4.5	3.8	3.8	3.1	4.9	3.3	4.7	257	274	57.1
1970.....	4.7	4.3	6.5	2.4	4.8	4.9	6.7	1.3	3.2	306	328	61.5
1971.....	-1.3	-1.8	2.8	-9.7	2.2	3.5	3.1	-5.1	3.4	298	330	60.9
1972.....	1.8	(z)	-3	6.6	4.9	7.8	1.0	3.7	5.7	300	342	60.4
1973.....	-.6	-2.7	-.1	-.8	4.2	5.7	-.8	6.8	5.8	295	353	59.5
1974.....	-1.9	-4.7	-4.4	.7	-2.5	-4.0	-3.5	-3.2	-.6	287	341	58.4
1975.....	-1.9	-4.5	-7.4	5.0	-2.8	-2.2	-8.2	-.5	-1.2	279	328	57.4
1976.....	.1	-2.7	-.8	4.3	5.4	7.5	2.0	7.1	5.4	276	342	57.4
1977.....	.3	1.1	.5	-.1	2.4	5.5	-.1	1.7	5.5	274	347	55.7
1978.....	1.6	5.6	-.4	-5.0	2.4	2.3	.4	-.8	5.0	276	352	54.3
1979.....	4.3	-1.8	3.0	17.4	.9	-2.2	3.4	9.1	2.8	284	351	53.3
1980.....	1.5	.8	.9	5.6	-3.7	-7.9	-1.3	2.3	-.3	285	335	51.5
1981.....	-.6	-.6	-2.1	-1.1	-2.6	-6.6	-2.3	3.3	2.6	281	323	48.9
1982, prel.....	-1.4	1.2	-7.6	(z)	-4.1	-5.0	-7.5	-3.4	-1.9	275	306	47.7

Z Less than .05 percent. ¹ Represents annual average for period of intervals shown; for 1950, change from 1949. Percent change derived from Btu values. Minus sign indicates decrease. For explanation of average annual percent change, see Guide to Tabular Presentation. ² Includes types of fuel or power not shown separately. ³ Includes lease condensate. ⁴ Includes natural gas plant liquids. ⁵ Gross national product in constant (1972) dollars, see table 735. ⁶ Based on resident population estimated as of July 1.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

NO. 979. ENERGY CONSUMPTION—END-USE SECTOR AND SELECTED SOURCE, BY STATE: 1981

[In trillions of Btu., except as indicated. For Btu conversion factors, see text, p. 571]

REGION, DIVISION, AND STATE	Total ¹	Per capita (mil. Btu)	END-USE SECTOR				SOURCE				
			Residential	Commercial	Industrial	Transportation	Petroleum	Natural gas (dry)	Coal	Hydropower	Nuclear power
U.S.....	74,014	323	14,598	10,641	² 29,292	19,482	31,932	19,922	16,010	3,066	2,974
Regions:											
Northeast.....	12,035	244	3,013	2,180	3,745	3,093	6,389	2,300	1,904	496	754
North Central.....	19,286	327	4,323	2,770	7,806	4,387	6,948	5,108	6,158	239	862
South.....	29,501	384	4,821	3,556	13,543	7,580	12,455	9,314	6,236	284	1,222
West.....	13,206	299	2,439	2,136	4,213	4,419	6,141	3,202	1,713	2,046	135
N. Eng.	2,668	214	771	504	627	763	1,851	314	57	94	281
Maine.....	305	270	69	35	118	83	217	2	4	61	57
N.H.....	186	199	57	25	48	56	129	10	24	14	—
Vt.....	112	217	35	15	27	34	64	4	1	12	39
Mass.....	1,204	209	347	263	236	358	680	189	27	4	47
R.I.....	179	187	51	32	44	51	102	30	(2)	(2)	—
Conn.....	682	217	212	134	154	181	459	79	1	3	138
Mid. Atl.	9,367	254	2,242	1,676	3,118	2,330	4,538	1,986	1,847	402	473
N.Y.....	3,595	204	926	856	871	942	1,961	781	302	397	190
N.J.....	2,062	278	474	363	610	614	1,241	401	75	³ -2	127
Pa.....	3,710	312	842	457	1,637	774	1,336	804	1,470	7	156
E. No. Cent.	13,818	332	3,091	1,960	5,852	2,915	4,723	3,644	4,578	86	662
Ohio.....	3,997	370	821	501	1,911	764	1,344	892	1,568	(2)	48
Ind.....	2,352	429	425	214	1,266	447	715	509	1,139	5	—
Ill.....	3,588	314	840	652	1,313	783	1,354	1,089	801	1	322
Mich.....	2,589	281	678	396	914	600	841	821	737	58	186
Wis.....	1,292	273	327	197	448	321	469	333	333	22	106
W. No. Cent.	5,468	316	1,232	810	1,954	1,472	2,225	1,464	1,580	153	200
Minn.....	1,195	291	279	153	444	318	492	273	256	11	111
Iowa.....	974	394	221	138	391	225	377	260	254	10	24
Mo.....	1,373	270	348	225	401	399	558	291	538	7	—
N. Dak.....	262	397	50	31	109	72	145	35	181	58	—
S. Dak.....	193	280	47	26	81	60	107	23	38	55	—
Nebr.....	506	321	117	97	160	131	199	142	100	12	65
Kans.....	965	405	170	140	388	267	347	440	213	(2)	—
So. Atl.	10,428	277	2,269	1,563	3,372	3,223	4,995	1,524	3,108	99	814
Del.....	192	322	33	37	71	51	137	31	50	—	—
Md.....	1,131	266	261	155	391	324	520	180	201	15	126
D.C.....	150	237	29	49	44	28	42	30	3	—	—
Va.....	1,476	272	333	260	396	486	678	156	265	4	194
W. Va.....	765	393	135	78	408	143	207	152	881	11	—
N.C.....	1,618	272	375	224	570	448	666	156	657	30	68
S.C.....	985	311	188	124	427	246	345	146	271	13	189
Ga.....	1,633	293	341	218	533	542	694	325	544	24	79
Fla.....	2,478	244	574	418	532	955	1,706	348	236	2	158
E. So. Cent.	5,212	353	980	637	2,263	1,332	1,798	961	1,941	151	309
Ky.....	1,304	356	248	153	579	324	450	204	875	27	—
Tenn.....	1,635	354	339	234	654	409	504	229	562	61	51
Ala.....	1,475	376	246	143	744	342	473	278	621	63	256
Miss.....	798	315	147	107	286	257	371	250	83	—	—
W. So. Cent.	13,861	568	1,572	1,356	7,908	3,025	5,662	6,829	1,187	34	99
Ark.....	803	350	148	88	358	209	316	272	102	13	99
La.....	3,501	815	290	312	2,237	662	1,458	1,830	26	—	—
Okla.....	1,250	405	293	169	526	330	456	600	155	12	—
Tex.....	8,299	564	901	787	4,787	1,824	3,432	4,037	904	9	—
Mt.	3,955	338	692	574	1,495	1,196	1,611	958	1,504	337	8
Mont.....	334	421	55	43	154	84	150	54	64	118	—
Idaho.....	362	378	70	65	150	76	110	46	15	99	—
Wyo.....	385	786	32	25	240	88	182	71	335	9	—
Colo.....	843	283	184	163	247	249	322	217	283	15	8
N. Mex.....	481	361	56	67	166	192	232	202	197	1	—
Ariz.....	791	283	139	136	248	289	303	188	326	71	—
Utah.....	471	311	100	40	208	123	175	105	172	6	—
Nev.....	286	340	56	35	82	115	137	75	112	18	—
Pac.	9,251	285	1,747	1,562	2,718	3,223	4,530	2,244	209	1,709	127
Wash.....	1,654	392	379	247	621	406	580	128	93	1,059	22
Oreg.....	873	328	167	134	303	249	354	77	28	334	70
Calif.....	6,212	267	1,125	1,130	1,614	2,343	3,225	1,911	82	309	35
Alaska.....	275	661	33	32	109	101	138	125	6	6	—
Hawaii.....	237	242	23	19	71	124	293	3	—	1	—

— Represents zero. Z Less than 500 billion. ¹ For source, includes geothermal, wood and waste, and net interstate sales of electricity, including losses, not shown separately. ² For industrial sector, includes 17 billion Btu of net imports of coke not allocated by State. ³ Minus sign (-) indicates when amount of energy expended for pump storage hydropower exceeds amount of energy consumed.

Source: U.S. Energy Information Administration, *State Energy Data Report*, annual.

NO. 980. PRIMARY ENERGY CONSUMPTION BY CONSUMING SECTOR: 1960 TO 1982

[For definition of Btu, see text, p. 571]

SECTOR	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982, prel.
Total consumption (quad. Btu).....	44.1	53.0	66.8	72.8	70.7	74.5	76.3	78.2	78.9	76.0	74.0	70.9
Residential and commercial.....	8.8	10.1	12.2	11.8	11.6	12.3	11.9	11.9	11.6	10.7	10.1	10.2
Industrial and miscellaneous.....	16.5	19.5	22.3	22.9	20.6	21.6	22.0	22.0	22.9	21.1	19.8	17.5
Transportation.....	10.6	12.4	16.0	18.1	18.2	19.0	19.8	20.5	20.4	19.7	19.5	19.0
Electricity generation.....	8.2	11.0	16.3	20.0	20.4	21.6	22.7	23.7	24.1	24.5	24.7	24.2
Percent of total:												
Residential and commercial.....	20.0	19.0	18.2	16.2	16.4	16.5	15.6	15.3	14.6	14.1	13.6	14.3
Industrial and miscellaneous.....	37.4	36.8	33.4	31.4	29.1	29.0	28.8	28.1	29.0	27.8	26.8	24.7
Transportation.....	24.0	23.4	24.0	24.8	25.7	25.5	25.9	26.3	25.9	25.9	26.3	26.8
Electricity generation.....	18.6	20.8	24.4	27.5	28.8	28.9	29.7	30.3	30.5	32.2	33.4	34.1

Source: U.S. Energy Information Administration, *Annual Energy Review*.

NO. 981. ENERGY CONSUMPTION, BY SECTOR AND PRIMARY SOURCE: 1982

[In trillions of Btu. For definition of Btu, see text, p. 571]

SECTOR	Total ¹	Coal ²	Natural gas, dry	Petroleum ³	Hydro-electric ⁴	Nuclear power	Other ⁵	Electricity distributed ⁶	Electric energy loss
Final consuming sectors.....	70,768	2,830	15,014	28,764	33	-	23	7,118	17,033
Residential and commercial.....	25,678	203	7,498	2,489	-	-	-	4,565	10,922
Industrial.....	26,025	2,627	6,909	7,854	33	-	-23	2,542	6,084
Transportation.....	19,065	-	607	18,421	-	-	-	11	27
Electric utilities.....	24,151	12,517	3,335	1,568	3,538	3,084	108	(x)	(x)

- Represents zero. X Not applicable. ¹ Total may not equal sum of components due to independent rounding of the components. ² Represents anthracite, bituminous, lignite, and net coke imports. ³ Includes petroleum products, still gas, liquefied refinery gas, and natural gas liquids. ⁴ Includes net imports of electricity. ⁵ Includes geothermal power, electricity produced from wood and waste, and net imports of coal coke. ⁶ Electrical energy used by railroads, and for street and highway lighting, is included in transportation sector. ⁷ Losses allocated by final end-use sector in proportion to their direct kilowatt-hour usage.

Source: U.S. Energy Information Administration, *Monthly Energy Review*, May 1983.

NO. 982. ENERGY EXPENDITURES AND AVERAGE FUEL PRICES, BY SOURCE AND END-USE SECTOR: 1970 TO 1980

[Based on Energy Price and Expenditures Data System. Btu=British thermal units; see text, p. 571. End-use sector and electric utilities exclude expenditures and prices on energy sources such as hydropower, solar, wind, and geothermal]

SOURCE AND END-USE SECTOR	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
EXPENDITURES (mil.dol.)											
Total ^{1 2}	84,485	91,771	99,974	114,540	158,246	177,757	200,362	227,840	247,140	307,980	390,520
Coal.....	2,352	2,309	2,547	2,826	5,129	5,983	5,845	5,600	6,037	6,313	5,947
Natural gas.....	10,458	11,589	12,693	13,536	15,928	19,367	24,367	28,315	30,727	38,358	47,380
Petroleum products.....	48,218	51,482	54,793	63,909	94,089	101,222	112,613	126,971	135,083	180,157	238,060
Motor gasoline.....	31,595	33,486	35,342	39,675	54,127	59,445	64,459	70,047	74,403	95,167	123,310
Distillate fuel oil.....	6,055	6,640	7,149	8,937	14,205	14,902	17,642	20,948	22,535	31,371	40,578
Jet fuel.....	1,539	1,689	1,709	2,066	3,345	4,422	4,794	5,759	6,517	9,082	14,782
Residual fuel.....	1,376	1,758	1,989	2,555	5,392	5,084	6,080	7,097	6,983	9,176	12,087
Electricity sales.....	23,530	26,430	29,971	34,276	42,953	51,132	57,538	66,907	74,892	82,911	99,266
Residential sector ²	19,850	21,813	23,961	26,873	32,384	36,716	41,581	47,430	51,628	58,829	70,434
Natural gas.....	5,294	5,734	6,239	6,259	6,977	8,407	9,996	11,351	12,476	14,708	17,507
Petroleum.....	4,156	4,394	4,563	5,770	7,242	7,456	8,758	9,722	9,847	12,237	14,316
Electricity sales.....	10,341	11,590	13,030	14,704	17,912	20,625	22,616	26,133	29,066	31,685	38,435
Commercial sector ²	10,709	12,049	13,476	15,395	19,486	22,920	26,424	30,595	33,591	38,892	47,383
Electricity sales.....	7,328	8,321	9,458	10,950	13,384	16,152	18,135	21,012	23,168	25,415	30,619
Industrial sector ²	18,124	19,692	22,009	26,017	41,599	46,896	54,249	63,318	69,008	86,587	108,356
Natural gas.....	3,186	3,625	3,976	4,649	6,001	7,342	9,694	11,458	11,954	15,243	19,847
Petroleum.....	7,019	7,576	8,290	10,200	19,160	19,468	22,396	26,935	28,482	39,470	52,936
Electricity sales.....	5,824	6,476	7,436	8,568	11,587	14,243	16,672	19,658	22,555	25,681	30,082
Transportation sector ²	35,802	38,216	40,529	46,255	64,777	71,425	78,108	86,487	92,913	123,672	164,338
Motor gasoline.....	30,524	32,443	34,361	38,605	52,755	57,992	62,975	68,529	72,904	93,265	120,744
Electric utilities ²	4,326	5,492	6,540	8,395	17,480	17,741	19,072	24,287	26,274	31,299	37,270
Coal.....	2,240	2,639	2,975	3,875	8,766	8,304	8,401	10,286	12,285	13,709	16,082
Natural gas.....	1,148	1,283	1,354	1,299	1,735	2,436	3,256	4,199	4,672	6,281	8,342
Petroleum.....	891	1,491	2,104	3,022	6,686	6,531	6,874	9,065	8,334	10,378	11,639
AVERAGE FUEL PRICES (dol. per mil. Btu)											
Residential sector.....	2.09	2.23	2.37	2.73	3.41	3.83	4.16	4.81	5.19	6.01	7.54
Commercial sector.....	1.96	2.15	2.33	2.61	3.41	4.09	4.40	5.15	5.51	6.28	7.90
Industrial sector.....	.75	.82	.88	.99	1.65	2.04	2.24	2.57	2.78	3.41	4.59
Transportation sector.....	2.23	2.29	2.30	2.50	3.60	3.93	4.10	4.39	4.51	6.06	8.36
Electric utilities.....	.32	.38	.42	.49	1.04	1.03	1.03	1.20	1.29	1.49	1.75

¹ Includes electricity sales; excludes electricity generation. ² Includes sources or fuel types not shown separately.Source: U.S. Energy Information Administration, *Energy Price and Expenditure Data Report*, 1970-1980

No. 983. ENERGY EXPENDITURES—SOURCE AND END-USE SECTOR, BY STATE: 1980

[In millions of dollars, except per capita. Based on Energy Price and Expenditure Data System. End-use sector and electric utilities exclude expenditures on energy sources such as hydropower, solar, wind, and geothermal]

DIVISION AND STATE	Total	Per capita (dol.)	SOURCE					END-USE SECTOR				Electric utilities
			Petroleum products		Natural gas	Coal	Electricity sales	Residential	Commercial	Industrial	Transportation	
			Total	Gasoline								
U.S.	2 390,520	1,710	238,060	123,310	47,380	5,947	99,266	70,434	47,393	2 108,356	164,338	37,270
N. Eng:												
Maine.....	1,807	1,605	1,327	604	12	7	462	503	214	326	765	126
N.H.....	1,322	1,432	889	490	38	1	395	387	162	219	554	146
Vt.....	735	1,436	527	287	23	(z)	184	228	90	92	325	23
Mass.....	8,206	1,429	4,839	2,619	893	9	2,366	2,386	1,670	932	3,218	1,155
R.I.....	1,267	1,335	758	438	138	(z)	371	372	202	193	500	40
Conn.....	4,742	1,523	2,968	1,579	369	(z)	1,404	1,372	746	850	1,773	654
Mid. Atl:												
N.Y.....	23,834	1,356	13,408	6,779	2,748	317	7,361	5,913	5,561	3,435	8,925	2,350
N.J.....	13,586	1,842	8,709	3,797	1,207	3	3,667	3,116	2,361	3,209	4,900	866
Pa.....	19,470	1,639	10,401	5,507	2,612	1,189	5,268	4,385	2,012	6,018	7,054	1,863
E. No. Cent:												
Ohio.....	18,213	1,686	9,524	5,623	2,972	741	4,978	3,754	2,046	5,512	6,901	1,614
Ind.....	10,736	1,956	5,991	3,122	1,425	814	2,507	1,860	954	4,035	3,987	954
Ill.....	19,757	1,728	10,753	5,822	3,630	236	5,138	3,986	2,842	5,656	7,273	2,021
Mich.....	14,265	1,541	7,544	5,145	2,634	406	3,681	3,104	1,804	3,428	5,928	1,180
Wis.....	6,866	1,452	3,932	2,457	1,175	105	1,654	1,639	872	1,443	2,913	484
W. No. Cent:												
Minn.....	6,141	1,504	3,923	2,319	804	37	1,377	1,253	534	1,473	2,881	318
Iowa.....	4,937	1,695	2,993	1,820	738	54	1,152	1,065	514	1,261	2,097	279
Mo.....	7,593	1,542	4,615	2,688	920	60	1,998	1,724	953	1,343	3,573	623
N. Dak.....	1,288	1,995	1,006	466	80	18	195	226	121	323	629	99
S. Dak.....	1,122	1,626	348	491	69	4	200	232	96	231	563	33
Nebr.....	2,487	1,582	1,597	980	374	10	506	466	285	520	1,216	155
Kans.....	4,921	2,079	2,998	1,441	924	9	989	708	484	1,686	2,044	357
So. Atl:												
Del.....	1,357	2,217	909	340	77	8	363	240	280	373	464	241
Md.....	6,449	1,526	3,625	2,296	612	183	1,828	1,407	898	1,310	2,833	540
D.C.....	832	1,306	330	203	117	7	378	229	212	135	256	48
Va.....	8,397	1,566	5,130	3,053	566	142	2,558	1,836	1,145	1,281	4,154	728
W. Va.....	3,298	1,691	1,612	1,020	460	256	769	555	257	1,173	1,313	880
N.C.....	6,375	1,422	5,350	3,378	491	65	2,470	1,748	812	1,767	4,049	891
S.C.....	4,893	1,501	2,779	1,616	430	82	1,403	834	473	1,142	2,244	449
Ga.....	8,848	1,614	5,578	3,409	970	30	2,270	1,425	857	1,769	4,797	875
Fla.....	14,843	1,503	9,288	5,571	450	31	5,075	2,988	1,923	1,987	7,967	2,392
E. So. Cent:												
Ky.....	6,203	1,694	3,907	1,993	558	123	1,614	1,006	531	1,999	2,667	678
Tenn.....	7,716	1,679	4,273	2,798	613	99	2,731	1,216	872	2,062	3,565	698
Ala.....	7,132	1,831	3,878	2,251	759	360	2,135	1,138	548	2,551	2,895	777
Miss.....	4,249	1,684	2,750	1,424	443	2	1,054	714	427	1,171	1,936	409
W. So. Cent:												
Ark.....	4,028	1,752	2,440	1,341	495	14	1,079	744	356	1,172	1,757	277
La.....	13,536	3,206	9,605	2,413	1,964	4	1,964	1,040	988	7,499	4,009	1,053
Okla.....	5,829	1,919	3,829	2,005	787	14	1,199	895	517	1,810	2,607	710
Tex.....	41,624	2,907	27,957	8,753	5,940	73	7,654	4,030	3,060	21,518	13,016	3,970
Mt:												
Mont.....	1,459	1,852	1,087	469	163	8	202	197	124	436	702	43
Idaho.....	1,489	1,572	931	561	193	16	347	226	169	374	720	(z)
Wyo.....	1,582	3,285	1,212	390	151	42	156	104	70	707	681	142
Colo.....	4,287	1,470	2,631	1,686	683	69	883	734	579	792	2,161	266
N. Mex.....	2,374	1,819	1,538	835	375	2	460	285	264	566	1,233	257
Ariz.....	4,213	1,543	2,412	1,534	334	21	1,446	745	627	880	2,161	393
Utah.....	2,259	1,535	1,437	787	255	93	475	354	215	609	1,081	143
Nev.....	1,684	2,087	1,091	582	112	5	477	255	148	301	980	227
Pac:												
Wash.....	5,888	1,419	4,315	2,205	579	26	967	788	491	1,352	3,257	96
Oreg.....	3,976	1,507	2,643	1,563	370	9	954	630	490	770	2,079	51
Calif.....	37,867	1,593	23,244	13,539	4,570	141	9,912	5,119	5,372	8,448	18,929	4,368
Alaska.....	1,122	2,784	928	197	78	-	116	117	91	241	673	48
Hawaii.....	1,780	1,837	1,297	411	-	-	483	178	155	321	1,127	271

- Represents zero. Z Less than \$500,000. ¹ Based on estimated resident population as of July 1. ² Includes net imports of coal coke not shown separately by State.

Source: U.S. Energy Information Administration, *Energy Price and Expenditure Data Report, 1970-1980*, July 1983.

**NO. 984. RESIDENTIAL ENERGY CONSUMPTION, EXPENDITURES, AND AVERAGE PRICES, 1979 TO 1981,
AND BY REGION, 1981**

[For period April to March of year stated. Excludes Alaska and Hawaii. Covers year-round occupied units only. Based on Residential Energy Consumption Survey; see Appendix III. For composition of regions, see fig. 1, inside front cover. Excludes household usage of gasoline for transportation and the use of wood or coal. Btu = British thermal unit; see text, p. 571]

ITEM	Unit	1979, all house- holds	1980, all house- holds	1981				
				All house- holds	North- east	North central	South	West
CONSUMPTION								
Total.....	Quad. Btu.....	10.56	9.74	9.32	2.43	2.92	2.59	1.38
Average per household.....	Mil. Btu.....	138	126	114	138	139	96	86
Natural gas.....	Quad. Btu.....	5.58	5.31	4.94	.82	2.02	1.11	.89
Electricity.....	Quad. Btu.....	2.47	2.42	2.46	.39	.60	1.06	.41
Fuel oil, kerosene.....	Quad. Btu.....	2.19	1.71	1.55	1.09	.16	.27	.04
Liquid petroleum gas.....	Quad. Btu.....	.33	.31	.36	.03	.15	.15	.04
EXPENDITURES								
Total.....	Bil. dol.....	55.5	63.2	74.8	22.4	19.2	23.6	9.6
Average per household.....	Dollars.....	724	815	917	1268	910	877	604
Natural gas.....	Bil. dol.....	15.3	17.8	19.3	4.7	7.2	4.3	3.1
Electricity.....	Bil. dol.....	29.9	32.6	40.1	8.6	9.7	16.0	5.9
Fuel oil, kerosene.....	Bil. dol.....	8.6	10.7	12.5	8.8	1.2	2.2	.3
Liquid petroleum gas.....	Bil. dol.....	1.7	2.1	2.9	.3	1.1	1.2	.3
AVERAGE PRICE (per million Btu)								
Total.....	Dollars.....	5.25	6.49	8.03	9.21	6.56	9.13	6.99
Natural gas.....	Dollars.....	2.74	3.36	3.90	5.14	3.55	3.84	3.50
Electricity.....	Dollars.....	12.10	13.46	16.32	21.99	16.12	15.10	14.34
Fuel oil, kerosene.....	Dollars.....	3.93	6.29	8.04	8.04	7.92	8.12	7.86
Liquid petroleum gas.....	Dollars.....	5.09	6.71	7.92	9.96	7.38	8.12	7.91

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey: Consumption and Expenditures*, annual.

**NO. 985. RESIDENTIAL ENERGY CONSUMPTION AND EXPENDITURES, BY TYPE OF FUEL AND SELECTED
HOUSEHOLD CHARACTERISTIC: 1981**

[For period April 1980 to March 1981. Quad.=quadrillion. See headnote, table 984]

CHARACTERISTIC	CONSUMPTION (Btu's)					EXPENDITURES				
	Total ¹ (quad.)	Avg. per house- hold ¹ (mil.)	Nat- ural gas (quad.)	Elec- tricity (quad.)	Fuel oil ² (quad.)	Total ¹ (bil. dol.)	Avg. per house- hold ¹ (dol.)	Nat- ural gas (bil. dol.)	Elec- tricity (bil. dol.)	Fuel oil ² (bil. dol.)
Total households	9.32	114	4.94	2.46	1.55	74.8	917	19.3	40.1	12.5
Single family detached.....	6.61	125	3.59	1.86	.80	52.2	965	13.3	29.6	7.2
Single family attached.....	.39	118	.21	.08	.09	3.3	965	1.0	1.5	.7
2-4 unit building.....	1.09	110	.70	.17	.21	6.2	822	3.1	3.3	1.7
5-or-more unit building.....	.83	77	.33	.20	.30	7.6	703	1.5	3.6	2.4
Mobile home.....	.39	84	.11	.15	.05	3.7	789	.4	2.2	.4
Year house built:										
1939 or earlier.....	3.06	132	1.71	.50	.74	22.9	981	6.9	9.1	6.0
1940-1949.....	.89	119	.49	.19	.18	6.7	898	2.0	3.1	1.5
1950-1959.....	1.67	122	.98	.39	.27	12.6	920	3.6	6.5	2.1
1960-1969.....	1.73	113	.97	.49	.21	13.7	893	3.8	7.7	1.6
1970-1974.....	1.02	97	.45	.41	.09	9.5	900	1.8	6.4	.7
1975 or later.....	.93	82	.34	.48	.06	9.5	840	1.3	7.4	.5
Heating and cooling degree day zones:³										
Less than 2,000 HDD and—										
More than 7,000 HDD.....	1.06	125	.54	.24	.22	8.1	951	2.0	3.8	1.7
5,500-7,000 HDD.....	2.95	141	1.88	.54	.45	20.7	988	7.1	9.3	3.6
4,000-5,499 HDD.....	2.59	122	1.12	.63	.76	22.2	1052	5.1	10.4	6.1
Less than 4,000 HDD.....	1.70	90	.96	.56	.10	13.4	707	3.4	8.6	.8
More than 2,000 HDD and less than 4,000 HDD.....	1.02	85	.44	.50	.02	10.4	861	1.7	8.0	.2
1979 family income:										
Less than \$5,000.....	1.02	98	.54	.21	.22	7.8	754	2.2	3.5	1.8
\$5,000-\$9,999.....	1.44	104	.76	.32	.28	11.2	807	3.0	5.3	2.3
\$10,000-\$14,999.....	1.41	102	.71	.36	.26	11.6	837	2.9	6.0	2.1
\$15,000-\$19,999.....	1.32	112	.71	.37	.20	10.7	900	2.7	5.9	1.6
\$20,000-\$24,999.....	1.25	126	.71	.35	.16	9.8	988	2.7	5.5	1.3
\$25,000-\$34,999.....	1.52	123	.80	.44	.23	12.4	1005	3.1	7.1	1.9
\$35,000 and over.....	1.35	143	.72	.41	.19	11.4	1206	2.7	6.9	1.5

¹ Includes liquid petroleum gas, not shown separately. ² Includes kerosene. ³ CDD=Cooling degree day; HDD=Heating degree day. See fig. 7.3, p. 227.

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey: 1980-1981 Consumption and Expenditures*.

No. 986. NATURAL GAS CONSUMPTION, EXPENDITURES, AND AVERAGE PRICES, BY SECTOR, 1970 TO 1980, AND BY REGION, 1980

[Based on Energy Price and Expenditures Data System. Btu=British thermal unit; see text, p. 571]

END-USE SECTOR	1970	1973	1975	1978	1979	1980				
						Total	North-east	North Central	South	West
CONSUMPTION (tril. Btu)										
Total.....	21,795	22,505	19,947	19,999	20,861	20,391	2,205	5,394	9,541	3,251
Residential.....	4,987	4,977	5,023	4,981	5,055	4,866	927	2,031	996	862
Industrial.....	9,536	10,388	8,532	8,539	8,549	8,395	585	1,881	4,885	1,044
Commercial.....	2,473	2,649	2,558	2,643	2,836	2,674	437	1,069	679	488
Transportation.....	745	743	595	539	612	650	35	146	360	108
Electric utility.....	4,054	3,748	3,240	3,297	3,609	3,807	221	216	2,621	748
EXPENDITURES (mil. dol.)										
Total.....	11,606	14,835	21,804	35,400	44,639	55,722	8,666	16,221	20,614	10,221
Residential.....	5,294	6,259	8,407	12,476	14,708	17,507	4,255	6,910	3,414	2,928
Industrial.....	3,166	4,649	7,342	11,954	15,243	19,847	1,918	5,305	9,649	2,974
Commercial.....	1,854	2,445	3,388	5,823	7,615	8,854	1,802	3,253	2,052	1,758
Transportation.....	144	183	230	474	793	1,171	66	276	607	223
Electric utility.....	1,148	1,299	2,436	4,672	6,281	8,342	626	477	4,881	2,358
AVERAGE PRICES (dollars per mil. Btu)										
Total.....	.53	.66	1.09	1.77	2.16	2.73	3.93	3.00	2.16	3.14
Residential.....	1.06	1.26	1.67	2.50	2.91	3.60	4.59	3.32	3.43	3.40
Industrial.....	.33	.45	.86	1.40	1.78	2.36	3.28	2.82	1.97	2.85
Commercial.....	.75	.92	1.32	2.20	2.68	3.31	4.12	3.04	3.04	3.56
Transportation.....	.19	.25	.39	.88	1.30	1.80	1.88	1.89	1.69	2.06
Electric utility.....	.28	.35	.75	1.42	1.74	2.19	2.83	2.21	1.86	3.15

Source: U.S. Energy Information Administration, *Natural Gas: Use and Expenditures*, April 1983.

No. 987. FOSSIL FUEL PRICES IN CURRENT AND CONSTANT (1972) DOLLARS: 1960 TO 1982

[In cents per million British thermal units (Btu), except as indicated. All fuel prices taken as close to the point of production as possible. See text, p. 571, for explanation of Btu conversions from mineral fuels. Minus sign (-) denotes decrease]

YEAR OR PERIOD	CURRENT DOLLARS					CONSTANT (1972) DOLLARS					GNP ^a price deflators (1972=100)
	Com- posite ¹	Crude oil	Natural gas	Bitumi- nous coal ²	Anthra- cite coal	Com- posite ¹	Crude oil	Natural gas	Bitumi- nous coal ²	Anthra- cite coal	
1960.....	28.1	49.7	12.6	18.3	33.0	40.9	72.3	18.3	26.6	48.0	68.7
1965.....	27.6	49.3	14.5	17.5	35.3	37.1	66.3	19.5	23.5	47.5	74.4
1970.....	31.5	54.8	15.4	25.5	47.1	34.4	59.9	16.8	27.9	51.5	91.5
1972.....	34.8	58.4	17.3	31.9	52.9	34.8	58.4	17.3	31.9	52.9	100.0
1973.....	39.6	67.1	20.1	35.5	58.9	37.4	63.5	18.9	33.6	55.7	105.8
1974.....	67.2	118.4	27.3	66.4	98.4	58.4	102.9	23.7	57.7	85.5	116.1
1975.....	82.2	132.2	41.1	82.9	137.9	65.3	105.1	32.7	65.9	109.6	126.6
1976.....	89.8	141.2	53.1	83.9	149.0	67.9	106.7	40.1	63.4	112.6	132.3
1977.....	100.6	147.6	72.3	87.3	150.4	71.8	105.5	51.6	62.3	107.4	140.1
1978.....	111.3	155.2	83.6	97.1	149.9	74.0	103.2	55.6	64.6	99.7	150.4
1979.....	141.4	217.9	108.1	104.7	174.1	86.5	133.3	66.1	84.1	106.5	183.4
1980.....	204.5	372.2	146.1	109.2	182.1	114.5	208.4	81.8	81.1	101.9	178.6
1981.....	274.9	547.8	181.5	117.5	186.9	140.6	280.2	92.8	60.1	95.6	195.5
1982, prel.....	276.7	492.1	221.8	122.0	198.4	133.6	237.6	107.1	58.9	95.8	207.2
Percent change:											
1960-70.....	12.1	10.3	22.2	39.3	42.7	-15.9	-17.2	-8.2	4.9	7.3	33.2
1970-73.....	25.7	22.4	30.5	39.2	25.1	8.7	6.0	11.3	20.4	8.2	15.6
1973-75.....	107.6	97.0	104.4	33.5	134.1	74.6	65.5	73.0	96.1	96.8	18.9
1975-79.....	72.0	64.8	163.0	26.3	26.3	32.5	26.8	102.1	-2.7	-2.8	29.9
1979-80.....	44.6	70.8	35.1	4.3	4.6	32.4	56.3	23.8	-4.7	-4.3	9.3
1980-81.....	34.4	47.2	24.2	7.6	2.6	22.8	34.5	13.4	-1.6	-6.2	9.5
1981-82, prel.....	.7	-10.2	22.2	3.8	6.2	-5.0	-15.2	15.4	-2.0	.2	6.0

¹ Weighted by relative importance of individual fuels in total fuels production. ² Includes lignite. ³ GNP=Gross national product; see text, p. 483.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

NO. 988. WORLD ENERGY CONSUMPTION, BY REGION AND ENERGY SOURCE: 1960 TO 1980

[In tons of coal equivalent. Metric ton=1.1023 short tons. See text, p. 854, for general comments about the data]

REGION AND ENERGY SOURCE	CONSUMPTION (mil. metric tons)									PERCENT DISTRIBUTION		
	1960	1965	1970	1975	1976	1977	1978	1979	1980	1960	1970	1980
World total.....	3,970	4,971	6,430	7,462	7,872	8,076	8,318	8,634	8,548	100.0	100.0	100.0
United States	1,477	1,783	2,227	2,284	2,378	2,408	2,428	2,470	2,370	37.2	34.6	27.7
Western Europe	783	1,003	1,295	1,407	1,502	1,482	1,516	1,619	1,559	19.7	20.1	18.2
Japan.....	109	178	317	354	407	413	419	431	431	2.7	4.9	5.0
Centrally planned economies ¹	1,201	1,444	1,783	2,292	2,400	2,522	2,630	2,715	2,745	30.3	27.7	32.1
Rest of world.....	400	563	808	1,125	1,185	1,253	1,325	1,399	1,443	10.1	12.6	16.9
Energy source:												
Solid fuels.....	1,981	2,070	2,184	2,309	2,398	2,448	2,491	2,637	2,669	49.9	34.0	31.2
Liquid fuels.....	1,311	1,902	2,798	3,374	3,603	3,716	3,800	3,867	3,709	33.0	43.5	43.4
Natural gas.....	593	882	1,293	1,556	1,640	1,683	1,754	1,842	1,871	14.9	20.1	21.9
Electricity.....	85	116	155	223	231	248	274	288	300	2.1	2.4	3.5

¹ Includes China, Dem. People's Rep. of Korea, Mongolia, Vietnam, Albania, Bulgaria, Czechoslovakia, German Dem. Rep., Hungary, Poland, Romania, and Soviet Union.Source: Statistical Office of the United Nations, New York, N.Y., *Yearbook of World Energy Statistics*. (Copyright.)

NO. 989. WORLD PRIMARY ENERGY PRODUCTION, BY REGION AND TYPE: 1973 TO 1981

[In quadrillion Btu. Btu=British thermal units. For Btu conversion factors, see source]

REGION AND TYPE	1973	1974	1975	1976	1977	1978	1979	1980	1981
World total.....	246.60	250.71	247.71	262.13	270.95	276.37	290.81	289.58	284.51
North America.....	73.76	72.71	71.31	71.50	72.53	74.20	78.28	81.36	81.67
United States.....	62.39	61.17	59.99	60.01	60.21	61.16	63.76	65.39	64.99
Central and South America.....	12.93	12.16	10.67	10.81	11.08	11.46	12.43	12.22	12.17
Western Europe.....	19.58	20.01	21.36	22.29	23.90	24.81	27.57	28.00	29.54
Eastern Europe ¹	51.44	54.18	56.52	59.54	62.25	64.66	66.76	68.74	69.10
Middle East.....	46.82	48.58	43.82	49.45	50.17	47.66	48.81	41.94	36.13
Africa.....	14.81	13.99	13.12	15.39	16.43	16.10	17.69	17.62	15.45
Far East and Oceania.....	27.25	29.16	30.90	33.15	34.59	37.28	39.09	39.69	40.45
Crude oil.....	117.84	118.07	111.57	121.19	125.98	126.31	131.52	125.47	117.23
Natural gas.....	43.46	44.29	44.19	46.16	47.54	48.82	52.12	53.30	54.65
Natural gas liquids.....	4.24	4.36	4.35	4.52	4.70	4.84	5.20	5.49	5.92
Coal.....	65.36	66.30	68.72	70.86	71.81	73.23	77.69	79.83	79.68
Hydroelectric power.....	13.52	14.83	15.03	15.07	15.51	16.74	17.64	18.04	18.35
Nuclear.....	2.19	2.86	3.84	4.52	5.42	6.43	6.65	7.44	8.69

¹ Includes U.S.S.R.Source: U.S. Energy Information Administration, *International Energy Annual*.

NO. 990. DAILY INTERNATIONAL FLOW OF CRUDE OIL, BY AREA: 1980

[In thousands of barrels per day]

EXPORTING AREA	IMPORTING AREA									
	Total	North America		Central and South America	Western Europe		East-ern Europe	Middle East ¹ and Africa	Japan	Other Far East and Oceania
		U.S.	Canada		Atlantic ocean, North Sea	Mediterranean Sea				
World total	31,249	5,263	554	3,120	7,019	4,744	2,036	1,240	4,414	2,860
North America.....	1,315	707	84	372	147	-	-	-	-	6
United States.....	287	(x)	84	* 198	-	-	-	-	-	6
Central and South America	1,648	332	170	797	134	116	-	-	67	32
Western Europe.....	1,349	317	7	20	1,000	3	-	1	-	-
U.S.S.R.....	2,430	-	-	100	348	310	1,550	30	2	90
Middle East.....	16,689	1,533	275	1,122	3,820	3,170	300	1,075	3,125	2,248
Africa.....	5,753	1,998	17	636	1,560	1,122	185	109	67	59
Far East and Oceania	2,085	376	-	73	10	23	-	25	1,153	425

- Represents zero. X Not applicable. ¹ Shipments to Jordan, Lebanon, and Syria only. ² Includes shipments to Puerto Rico and Virgin Islands.Source: U.S. Energy Information Administration, *International Energy Annual*.

No. 991. U.S. FOREIGN TRADE IN SELECTED MINERAL FUELS: 1960 TO 1982

[Btu=British thermal units. For Btu conversion factors, see text, p. 571. Minus sign (-) indicates an excess of imports over exports. See also *Historical Statistics, Colonial Times to 1970*, series M 100, 101, 127, 128, 140, 141, 178, and 181]

YEAR	NATURAL GAS						CRUDE OIL					
	Imports		Exports		Net trade		Imports ¹		Exports		Net trade	
	Bill. cu. ft.	Tril. Btu	Bill. cu. ft.	Tril. Btu	Bill. cu. ft.	Tril. Btu	Mill. bbl.	Tril. Btu	Mill. bbl.	Tril. Btu	Mill. bbl.	Tril. Btu
1960.....	155.6	161	11.3	12	-144.3	-149	372	2,196	3	18	-369	-2,178
1965.....	456.4	471	26.1	27	-430.3	-444	452	2,654	1	6	-451	-2,648
1970.....	820.8	846	69.8	72	-751.0	-774	483	2,814	5	29	-478	-2,785
1971.....	934.5	964	80.2	83	-854.3	-881	613	3,573	1	3	-612	-3,570
1972.....	1,019.5	1,047	78.0	80	-941.5	-967	811	4,712	(z)	1	-811	-4,710
1973.....	1,032.9	1,060	77.2	79	-955.7	-981	1,184	6,887	1	4	-1,183	-6,883
1974.....	959.3	985	76.8	78	-882.5	-907	1,269	7,395	1	6	-1,268	-7,389
1975.....	953.0	978	72.7	74	-880.3	-904	1,498	8,721	2	12	-1,496	-8,709
1976.....	963.8	988	64.7	66	-899.1	-922	1,935	11,239	3	17	-1,932	-11,221
1977.....	1,011.0	1,037	55.6	56	-955.4	-981	2,414	14,027	18	106	-2,398	-13,921
1978.....	965.5	995	52.5	53	-913.0	-941	2,320	13,460	58	335	-2,262	-13,125
1979.....	1,253.4	1,300	55.7	56	-1,197.7	-1,243	2,380	13,825	86	497	-2,294	-13,328
1980.....	984.8	1,006	48.7	49	-900.1	-957	1,926	11,195	105	609	-1,821	-10,586
1981.....	903.9	917	59.4	60	-844.5	-856	1,605	9,336	83	482	-1,522	-8,854
1982, prel.....	972.0	986	55.0	56	-917.0	-930	1,283	7,349	86	500	-1,177	-6,848
	COAL						PETROLEUM PRODUCTS					
	Imports		Exports ²		Net trade		Imports		Exports		Net trade	
	1,000 sh. tons	Tril. Btu	1,000 sh. tons	Tril. Btu	1,000 sh. tons	Tril. Btu	Mill. bbl.	Tril. Btu	Mill. bbl.	Tril. Btu	Mill. bbl.	Tril. Btu
1960.....	261	7	37,981	1,023	37,720	1,017	293	1,802	71	413	-222	-1,389
1965.....	184	5	52,165	1,377	51,981	1,372	449	2,748	67	386	-382	-2,366
1970.....	36	1	72,419	1,936	72,383	1,935	785	4,656	89	520	-676	-4,136
1971.....	111	3	58,022	1,546	57,911	1,543	819	4,968	81	470	-738	-4,498
1972.....	47	1	57,188	1,531	57,141	1,530	924	5,587	81	467	-843	-5,120
1973.....	127	3	54,030	1,446	53,903	1,443	1,099	6,578	84	482	-1,015	-6,097
1974.....	2,080	52	61,095	1,637	59,015	1,585	962	5,731	79	458	-883	-5,273
1975.....	940	24	66,765	1,789	65,825	1,766	712	4,227	74	427	-638	-3,800
1976.....	1,203	30	60,594	1,620	59,391	1,590	741	4,434	79	452	-662	-3,982
1977.....	1,547	41	54,713	1,465	53,068	1,424	800	4,728	70	408	-730	-4,321
1978.....	2,953	74	40,967	1,098	38,014	1,024	733	4,364	74	432	-659	-3,932
1979.....	2,059	51	66,381	1,781	64,322	1,730	707	4,108	86	505	-621	-3,603
1980.....	1,194	30	92,082	2,420	90,888	2,390	603	3,463	94	551	-509	-2,912
1981.....	1,043	26	112,914	2,945	111,871	2,918	584	3,303	134	781	-450	-2,522
1982, prel.....	620	16	106,612	2,782	105,992	2,766	577	3,266	211	1,233	-366	-2,033

² Less than 500,000. ¹ Beginning 1977 includes strategic petroleum reserve imports. ² Includes shipments to U.S. Armed Forces.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

No. 992. CRUDE OIL IMPORTS INTO U.S., BY COUNTRY OF ORIGIN: 1970 TO 1982

COUNTRY OF ORIGIN	IMPORTS (mil. 42-gal. bbls.)												PERCENT DISTRIBUTION		
	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1970	1975	1982	
Total	483	1,164	1,269	1,498	1,935	2,414	2,320	2,380	1,926	1,605	1,273	100.0	100.0	100.0	
Canada.....	245	365	289	219	136	102	90	99	73	60	78	50.7	14.6	6.1	
Mexico.....	-	(2)	1	26	32	65	115	160	186	171	235	-	1.7	18.5	
Norway.....	-	-	(2)	5	13	18	38	28	53	42	37	-	.3	2.9	
Trinidad-Tobago.....	(2)	22	23	42	38	49	52	45	42	37	34	(2)	2.8	2.7	
United Kingdom.....	-	-	-	-	5	36	62	72	63	135	161	-	-	12.6	
OPEC	222	767	926	1,171	1,663	2,058	1,692	1,866	1,414	1,067	633	46.0	78.2	49.7	
Algeria.....	2	44	66	96	149	198	231	222	167	95	33	.4	6.4	2.6	
Ecuador.....	-	17	15	21	19	20	14	11	6	14	12	-	1.4	.9	
Gabon.....	-	-	9	10	10	13	14	15	9	13	14	-	.6	1.1	
Indonesia.....	26	73	103	138	196	185	195	139	115	116	82	5.4	9.2	6.4	
Iran.....	12	79	169	102	109	193	202	108	3	-	13	2.5	6.8	1.0	
Iraq.....	-	2	-	(2)	10	27	23	32	10	-	1	-	(2)	.1	
Kuwait.....	12	15	2	1	(2)	15	2	2	10	-	1	2.5	.1	.1	
Libya.....	17	49	1	81	162	257	233	234	200	116	8	3.5	5.4	.6	
Nigeria.....	17	184	254	272	371	412	332	390	308	223	186	3.5	18.2	14.6	
Qatar.....	-	3	6	7	9	24	23	11	8	3	2	-	.5	.2	
Saudi Arabia.....	15	189	160	253	447	501	417	492	458	406	194	3.1	17.1	15.2	
United Arab Emirates.....	23	26	25	43	93	122	141	103	63	28	30	4.8	2.9	2.4	
Venezuela.....	98	126	116	144	88	91	66	107	57	54	56	20.3	9.6	4.4	
Other.....	16	30	30	35	48	86	71	110	95	93	95	3.3	2.3	7.5	

- Represents zero. ² Less than 500,000 or less than .05 percent.

Source: 1970-1978, U.S. Bureau of Mines, *Minerals Yearbook and Mineral Industry Surveys*; 1977-1980, U.S. Energy Information Administration, *Petroleum Statement*, annual; thereafter, U.S. Energy Information Administration, *Petroleum Supply Annual*.

NO. 993. CRUDE OIL AND REFINED PRODUCTS SUMMARY: 1973 TO 1983

(Barrels of 42 gallons)

YEAR AND MONTH	CRUDE OIL (1,000 bbl. per day)					REFINED OIL PRODUCTS (1,000 bbl. per day)			Total oil im- ports ² (1,000 bbl. per day)	CRUDE OIL STOCKS ³ (mil. bbl.)	
	Input to refineries	Do- mestic pro- duction	Imports		Ex- ports	Do- mestic de- mand	Im- ports	Ex- ports		Total	Strategic re- serve
			Total ¹	Strategic re- serve							
1973, avg.....	12,431	9,208	3,244	(x)	2	17,308	3,012	229	6,256	242	(x)
1974, avg.....	12,133	8,774	3,477	(x)	3	16,653	2,635	218	6,112	265	(x)
1975, avg.....	12,442	8,375	4,105	(x)	6	16,322	1,951	204	6,056	271	(x)
1976, avg.....	13,416	8,132	5,287	(x)	8	17,461	2,026	215	7,313	285	(x)
1977, avg.....	14,602	8,245	6,615	21	50	18,431	2,193	193	8,807	348	7
1978, avg.....	14,739	8,707	6,356	162	158	18,847	2,008	204	8,363	376	67
1979, avg.....	14,648	8,552	6,519	67	235	18,513	1,937	236	8,456	430	91
1980, avg.....	13,481	8,587	5,263	44	287	17,056	1,646	258	6,909	466	108
1981, avg.....	12,477	8,572	4,396	256	228	16,001	1,576	367	5,981	594	230
1st qtr.....	12,843	8,577	4,775	109	251	17,021	1,762	320	6,531	518	121
2d qtr.....	12,272	8,551	4,229	325	212	15,487	1,362	317	5,631	555	163
3d qtr.....	12,563	8,531	4,405	289	219	15,522	1,552	360	5,953	561	199
4th qtr.....	12,236	8,588	4,188	297	230	15,988	1,628	468	5,817	594	230
1982, avg.....	11,774	8,649	3,488	165	236	15,298	1,525	579	5,113	644	294
1st qtr.....	11,375	8,624	3,192	172	287	15,882	1,685	552	4,877	809	249
2d qtr.....	11,886	8,641	3,331	166	178	15,292	1,507	587	4,839	808	264
3d qtr.....	12,154	8,664	3,915	148	340	14,893	1,602	557	5,517	619	279
4th qtr.....	11,662	8,665	3,507	173	241	15,119	1,706	619	5,213	644	294
1983, ⁴ avg.....	11,357	8,669	2,884	217	178	14,877	1,528	668	4,412	688	332
1st qtr.....	10,853	8,657	2,479	206	184	15,007	1,418	695	3,897	670	312
2d qtr.....	11,849	8,681	3,278	228	171	14,746	1,636	640	4,914	688	332

X Not applicable. ¹ Includes Strategic Petroleum Reserve. ² Crude oil (including Strategic Petroleum Reserve imports) plus refined products. ³ End of year or quarter. ⁴ Preliminary.

Source: U.S. Energy Information Administration, *Monthly Energy Review*, August 1983, and earlier issues.

NO. 994. ENERGY PRODUCING COMPANIES—SELECTED FINANCIAL AND INVESTMENT INDICATORS, 1975 TO 1981, AND BY LINE-OF-BUSINESS, 1981

[Based on data from 26 major publicly-owned domestic crude oil producing companies which either had at least one percent of domestic production or reserves of oil, natural gas, coal, or uranium, or at least one percent of refining capacity or petroleum product sales]

ITEM	1975	1976	1977	1978	1979	1980	1981, prel.					
							Total ¹	Line-of-business				
								Petro- leum	Coal	Nuclear	Other energy	Non- energy
INCOME STATEMENT (bil. dol.)												
Operating revenues	215.5	243.7	266.6	294.8	392.6	518.6	575.7	516.1	4.6	.8	.9	75.4
Operating expenses	191.2	219.8	239.3	265.0	345.8	455.9	520.9	458.2	4.4	1.0	1.4	74.0
Operating income	24.3	24.0	27.3	29.8	46.8	62.7	54.8	56.9	.2	-.2	-.5	1.4
Pretax income	26.5	26.0	28.2	30.2	48.6	66.9	59.6	60.5	.5	-.3	-.5	2.3
Net income	10.3	12.0	12.7	13.9	23.5	31.0	30.0	29.5	.4	-.1	-.2	1.6
Funds from operations ²	19.1	23.7	27.3	31.2	45.4	59.0	61.6	(NA)	(NA)	(NA)	(NA)	(NA)
BALANCE SHEET (bil. dol.)												
Net property, plant, and equipment	97.3	111.1	125.9	138.1	159.3	188.9	224.9	171.3	6.8	1.3	3.0	39.5
Net investment in place ³	106.0	120.2	135.1	148.1	169.9	202.6	240.8	178.0	7.2	1.3	3.2	45.9
Total assets	173.7	196.9	217.1	237.1	282.8	333.0	372.5	(NA)	(NA)	(NA)	(NA)	(NA)
RATIOS (percent)												
Net income to operating revenues	4.8	4.9	4.8	4.7	6.0	6.0	5.2	5.7	9.5	-11.7	-23.5	2.1
Net income to total assets	5.9	6.1	5.8	5.9	8.3	9.3	8.0	(NA)	(NA)	(NA)	(NA)	(NA)
Net income to stockholders' equity	12.3	13.1	12.6	12.8	18.8	21.1	18.1	(NA)	(NA)	(NA)	(NA)	(NA)
Long-term debt to stockholders' equity ⁴	35.6	38.7	38.9	35.6	33.7	31.5	32.2	(NA)	(NA)	(NA)	(NA)	(NA)
Long-term debt to total assets ⁴	17.1	18.0	18.0	16.3	14.9	13.9	14.3	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

¹ Includes items which cannot be allocated and adjusted for duplication, not shown separately. ² The sum of net income, depreciation, depletion and amortization, deferred taxes, dry hole expenses, etc. ³ Composed of net property, plant and equipment plus investment and advances to unconsolidated subsidiaries. ⁴ Long-term debt includes amounts applicable to capitalized leases.

Source: U.S. Energy Information Administration, *Performance Profiles of Major Energy Producers*, annual, and unpublished data.

NO. 995. PETROLEUM AND COAL PRODUCTS—SALES, NET PROFIT, AND PROFIT PER DOLLAR OF SALES: 1970 TO 1982

[Profit rates are averages of quarterly figures at annual rates]

ITEM	Unit	1970	1974 ¹	1974 ²	1975 ²	1976 ²	1977 ²	1978 ²	1979 ²	1980 ²	1981 ²	1982 ²
Sales.....	Bil. dol.....	64.1	180.4	113.5	121.8	141.3	162.3	180.3	242.7	333.2	376.1	357.1
Net profit:												
Before taxes ³	Bil. dol.....	7.0	15.6	17.7	13.3	16.9	17.8	19.2	32.2	39.1	35.3	27.8
After taxes.....	Bil. dol.....	5.9	12.3	14.5	9.3	11.7	12.2	12.8	21.9	25.5	23.7	19.7
Depreciation ⁴	Bil. dol.....	4.5	(NA)	5.1	5.6	5.9	6.6	7.7	9.5	11.6	13.7	16.3
Profits per dollar of sales:												
Before taxes ³	Cents.....	11.0	8.6	15.6	10.9	12.0	11.0	10.6	13.3	11.7	9.4	7.8
After taxes.....	Cents.....	9.2	6.8	12.8	7.6	8.3	7.5	7.1	13.0	7.7	6.3	5.5
Profits on stockholders' equity:												
Before taxes ³	Percent.....	13.0	(NA)	25.8	17.9	20.3	19.9	19.8	30.0	30.7	25.6	18.7
After taxes.....	Percent.....	11.0	(NA)	21.1	12.5	14.1	13.6	13.3	20.4	20.0	17.2	13.2

NA. Not available. ¹ Estimates based on FTC reporting requirements in use prior to 1974. ² Beginning 1974, based on new FTC reporting requirements. ³ Federal income taxes. ⁴ Includes depletion and accelerated amortization of emergency facilities.

Source: Through 1981, U.S. Federal Trade Commission and, beginning 1982, U.S. Bureau of the Census, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*.

NO. 996. MAJOR PETROLEUM COMPANIES—FINANCIAL DATA SUMMARY: 1970 TO 1982

[Data represent a composite of approximately 41 major worldwide petroleum companies aggregated on a consolidated, total company basis]

ITEM	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
FINANCIAL DATA (bil. dol.)												
Net income.....	6.9	6.8	11.8	15.9	11.6	14.3	15.1	16.0	32.8	32.9	29.2	21.9
Depreciation, depletion, etc.....	7.4	9.1	10.5	13.0	11.3	14.8	18.3	19.8	24.9	32.5	34.9	41.8
Cash flow ¹	14.2	15.9	22.3	28.9	22.8	29.1	33.4	35.8	57.7	65.4	64.1	63.7
Dividends paid.....	3.8	3.8	4.0	4.5	4.7	5.4	6.3	6.8	8.0	9.3	10.6	11.0
Net internal funds available for investment or debt repayment ²	10.5	12.1	18.3	24.5	18.1	23.7	27.1	29.0	49.7	56.1	53.5	52.7
Capital and exploratory expenditures.....	13.3	14.3	16.3	25.8	28.9	30.7	31.8	37.1	51.1	62.1	79.2	75.3
Long-term capitalization.....	84.5	93.7	102.9	112.9	121.1	142.9	150.1	168.0	198.9	211.4	248.1	264.1
Long-term debt.....	18.5	21.8	22.5	25.0	28.9	39.1	38.4	45.1	48.1	49.8	59.2	65.2
Preferred stock.....	1.3	.4	.4	.4	.3	.3	.9	.9	.9	2.0	2.0	3.5
Common stock and retained earnings ³	64.6	71.5	80.0	87.4	91.9	103.5	110.8	122.0	147.9	159.6	186.9	195.4
Excess of expenditures over cash income ⁴	2.8	2.2	-2.0	1.3	8.9	6.9	4.7	8.1	1.4	6.0	25.7	22.6
RATIOS ⁵ (percent)												
Long-term debt to long-term capitalization.....	21.9	23.3	22.0	22.2	23.8	27.4	25.6	26.8	24.4	23.6	23.8	24.7
Net income to total average capital.....	8.3	7.4	12.0	14.8	10.0	10.7	10.1	9.9	17.8	17.0	10.4	8.6
Net income to average common equity.....	10.7	9.7	15.6	19.0	13.1	14.3	13.9	13.5	24.0	22.5	17.7	11.5

¹ Generally represents internally-generated funds from operations. Sum of net income and noncash charges such as depreciation, depletion, and amortization. ² Cash flow minus dividends paid. ³ Includes common stock, capital surplus, and earned surplus accounts after adjustments. ⁴ Capital and exploratory expenditures plus dividends paid minus cash flow.

⁵ Represent approximate year-to-year comparisons because of changes in the makeup of the group due to mergers and other corporate changes.

Source: Carl H. Pforzheimer & Co., New York, N.Y., *Comparative Oil Company Statements, 1981-1982*, and earlier reports.

NO. 997. ELECTRIC UTILITY PRODUCTION, 1960 TO 1982, AND PROJECTIONS, 1983 TO 1990

[Excludes industrial facilities and railways having own generating facilities. For explanation of average annual percent change, see Guide to Tabular Presentation]

ITEM	1960	1965	1970	1975	1980	1981	1982, prel.	1983, proj.	1985, proj.	1990, proj.
Energy use (bil. kWh).....	753	1,055	1,532	1,918	2,286	2,295	2,241	2,420	2,600	3,021
Average annual percent change ¹	6.7	7.0	7.7	1.5	3.6	.4	-2.4	8.0	7.4	16.2
Per capita ² kWh (1,000).....	4.2	5.5	7.5	9.0	10.1	10.0	9.7	(NA)	(NA)	(NA)
Peak load net capability, July (mil. kW).....	138	189	276	345	430	431	414	450	480	552
Average annual percent change ¹	7.1	6.5	7.8	1.6	6.7	.2	-4.0	8.7	6.7	15.0

NA. Not available. ¹ Change from prior year shown; for 1980, change from 1955. ² For resident population of the 50 States and D.C. estimated for July 1, based on U.S. Bureau of the Census population data.

Source: 1960-1975, U.S. Federal Power Commission, unpublished data; 1980, U.S. Energy Information Administration, *Electric Energy and Peak Load*, annual; thereafter, *Electric Power Annual*.

NO. 998. ELECTRIC ENERGY PRODUCTION AND INSTALLED GENERATING CAPACITY, BY TYPE OF PRIME MOVER AND CONSUMPTION OF FUELS: 1960 TO 1982

[Production for calendar years; other data as of December 31, 1960 excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1970*, series S 32-52, S 78-82, and S 86-107]

ITEM	Unit	1960	1965	1970	1975	1977	1978	1979	1980	1981	1982
PRODUCTION											
Total ¹	Bil. kWh.....	842	1,158	1,640	2,003	2,212	2,285	2,319	2,286	2,295	2,241
Average annual change ²	Percent.....	5.0	6.6	7.2	4.1	4.1	3.3	1.5	(NA)	.4	-2.4
Production, kWh per kW of capacity.....	Number.....	4,529	4,548	4,545	3,798	3,818	3,818	3,766	3,624	3,519	3,358
Industrial plants ³	Bil. kWh.....	88	102	108	85	88	79	71	(NA)	(NA)	(NA)
Electric utilities ⁴	Bil. kWh.....	753	1,055	1,532	1,918	2,124	2,206	2,247	2,286	2,295	2,241
Privately owned.....	Bil. kWh.....	579	809	1,183	1,487	1,684	1,721	1,756	1,783	1,786	1,712
Percent of total utilities.....	Percent.....	76.8	76.7	77.2	77.5	79.3	78.0	78.1	78.0	77.0	76.4
Publicly owned.....	Bil. kWh.....	175	246	349	431	440	485	491	503	509	530
Municipal.....	Bil. kWh.....	37	50	71	82	83	90	87	87	81	77
Federal.....	Bil. kWh.....	112	145	186	221	214	235	236	235	232	241
Cooperatives and other.....	Bil. kWh.....	26	51	91	128	143	160	168	182	195	212
Source of energy:											
Coal ⁵	Percent.....	53.5	54.1	46.2	44.7	46.6	44.4	48.1	51.1	52.7	53.4
Nuclear.....	Percent.....	1	4	1.4	9.0	11.8	12.5	11.4	11.0	11.9	12.6
Oil.....	Percent.....	6.1	6.1	11.9	15.1	16.8	16.5	13.5	10.7	9.0	6.5
Gas.....	Percent.....	21.0	21.0	24.3	15.6	14.4	13.8	14.7	15.1	15.1	13.6
Hydro.....	Percent.....	18.3	18.4	16.2	15.6	10.4	12.7	12.4	12.1	11.4	13.8
INSTALLED CAPACITY											
Total.....	Mil. kW.....	186	255	361	527	579	598	616	631	652	667
Average annual change ²	Percent.....	7.3	6.5	7.2	7.9	5.3	3.3	2.9	2.4	3.3	2.3
Industrial plants ³	Mil. kW.....	18	18	19	19	19	19	17	17	17	17
Electric utilities ⁴	Mil. kW.....	168	236	342	508	560	579	598	614	635	650
Privately owned.....	Mil. kW.....	128	178	263	399	438	454	464	477	491	499
Percent of total utilities.....	Percent.....	76.5	75.2	76.9	78.5	78.2	78.3	77.6	77.7	77.3	76.8
Publicly owned.....	Mil. kW.....	40	59	79	109	122	126	134	137	144	151
Municipal.....	Mil. kW.....	11	15	21	29	33	34	34	35	35	36
Federal.....	Mil. kW.....	22	32	39	50	53	54	58	59	61	63
Cooperatives and other.....	Mil. kW.....	6	11	19	30	36	37	42	43	48	52
ELECTRIC UTILITIES ⁴											
TYPE OF PRIME MOVER											
Prime movers, total ⁶	Number.....	3,435	3,290	3,533	3,587	3,587	3,586	3,573	3,575	3,567	3,515
Hydro.....	Number.....	1,331	1,231	1,188	1,146	1,145	1,146	1,145	1,142	1,147	1,168
Steam conventional.....	Number.....	958	937	926	922	922	922	925	934	937	916
Gas turbine.....	Number.....	1,055	1,059	1,233	497	520	525	537	541	540	541
Steam nuclear.....	Number.....	5	9	16	42	49	50	51	51	53	53
Internal combustion.....	Number.....	1,044	991	1,008	965	947	939	915	907	890	837
Production.....	Bil. kWh.....	753	1,055	1,532	1,918	2,124	2,206	2,247	2,286	2,295	2,241
Hydro.....	Bil. kWh.....	146	194	248	300	220	280	280	276	261	309
Steam conventional.....	Bil. kWh.....	602	852	1,241	1,417	1,619	1,613	1,680	1,731	1,736	1,633
Gas turbine.....	Bil. kWh.....	1	4	16	22	29	31	28	24	22	14
Steam nuclear.....	Bil. kWh.....	1	4	22	173	251	276	255	251	273	283
Internal combustion.....	Bil. kWh.....	4	5	6	6	5	5	4	4	3	2
Installed capacity.....	Mil. kW.....	168	236	342	508	560	579	598	614	635	650
Hydro.....	Mil. kW.....	32	44	55	66	69	71	75	76	77	78
Steam conventional.....	Mil. kW.....	133	188	260	353	388	400	412	425	440	452
Gas turbine.....	Mil. kW.....	(2)	1	15	44	48	49	51	51	51	52
Steam nuclear.....	Mil. kW.....	3	3	4	5	5	5	5	5	6	5
Internal combustion.....	Mil. kW.....	3	3	4	5	5	6	5	6	6	5
ELECTRIC UTILITIES ⁴											
CONSUMPTION OF FUELS											
Net generation by fuel ⁷	Bil. kWh.....	607	861	1,284	1,618	1,904	1,926	1,968	2,010	2,034	1,932
Average annual change ²	Percent.....	6.9	7.2	7.6	4.7	8.5	1.2	2.2	2.1	1.2	-5.0
Coal ⁸	Bil. kWh.....	403	571	706	853	985	977	1,076	1,162	1,204	1,192
Percent of total.....	Percent.....	66.4	66.3	54.3	52.7	51.7	50.7	54.7	57.8	59.2	61.7
Fuel oil.....	Bil. kWh.....	46	65	182	289	358	364	303	246	208	146
Gas.....	Bil. kWh.....	158	221	373	300	306	305	329	346	346	305
Nuclear.....	Bil. kWh.....	1	4	22	173	251	276	255	251	273	283
Fuel consumed:											
Total coal equivalent.....	Mil. sh. tons.....	266	369	583	770	922	950	965	985	1,009	962
Coal, including lignite.....	Mil. sh. tons.....	177	245	321	406	477	482	527	569	597	584
Oil.....	Mil. bbl.....	85	115	336	506	624	638	523	420	351	250
Gas.....	Bil. cu. ft.....	1,724	2,321	3,932	3,158	3,191	3,188	3,491	3,682	3,640	3,226

NA Not available. Z Less than .5 million. ¹ Beginning 1980, excludes industrial plants. ² Change from prior year shown; for 1980, change from 1955. For explanation of average annual percent change, see Guide to Tabular Presentation.

³ Plants of 100 kilowatts and over, including stationary powerplants of railroads. ⁴ For public use. ⁵ Includes small percentage from wood and waste, geothermal, and petroleum coke. ⁶ Each prime mover type in combination plants counted separately. ⁷ Includes limited output of wood, waste, and geothermal power. ⁸ Includes petroleum coke.

Source: 1960-1970, U.S. Federal Power Commission, *Electric Power Statistics*, and press releases; thereafter, U.S. Energy Information Administration, 1975-1980, *Power Production, Fuel Consumption, and Installed Capacity Data—Annual*, and unpublished data; thereafter, *Electric Power Annual*, and unpublished data.

NO. 999. ELECTRIC UTILITY INDUSTRY—CAPABILITY, PEAK LOAD, AND CAPABILITY MARGIN: 1970 TO 1982

[Excludes Alaska and Hawaii. Minus sign (—) indicates decrease]

YEAR	CAPABILITY			PEAK LOAD		CAPABILITY MARGIN	
	Total (mil. kW)	Annual increase (mil. kW)	Percent annual increase ¹	Total (mil. kW)	Annual percent change ¹	Total (mil. kW)	Percent of capability
1970: Summer	326.9	26.6	8.9	274.7	6.6	52.3	16.0
December	339.1	27.6	8.9	248.6	5.1	90.5	26.7
1974: Summer	444.4	28.9	7.0	349.3	1.6	95.2	21.4
Winter	467.4	34.2	7.9	302.5	2.5	164.9	35.3
1975: Summer	479.3	34.9	7.9	356.8	2.2	122.5	25.6
Winter	492.5	25.1	5.4	331.1	9.5	161.4	32.8
1976: Summer	498.8	19.5	4.1	370.9	4.0	127.9	25.6
Winter	511.0	18.5	3.8	349.9	5.7	161.1	31.5
1977: Summer	516.0	17.3	3.5	396.4	6.9	119.7	23.2
Winter	537.6	26.6	5.2	360.2	2.9	177.4	33.0
1978: Summer	545.7	29.7	5.8	408.1	3.0	137.7	25.2
Winter	561.6	24.0	4.5	383.1	6.4	178.5	31.8
1979: Summer	558.3	12.6	2.2	411.6	.9	146.7	26.3
Winter	589.2	7.6	1.4	380.7	— .6	198.5	33.1
1980: Summer	558.5	.2	(2)	427.1	3.8	131.5	23.5
Winter	572.2	3.0	.5	384.6	1.0	187.6	32.8
1981: Summer	572.1	13.5	2.4	428.3	.3	143.8	25.1
Winter	581.1	8.9	1.6	391.1	1.7	190.0	32.7
1982: Summer	577.8	5.8	1.1	414.9	— 3.1	162.9	28.2
Winter	(NA)	(NA)	(NA)	373.3	— 4.5	(NA)	(NA)

NA Not available. Z Less than .05 percent. ¹ Percent change from previous year; e.g., 1970 from 1969 and 1974 from 1973.

Source: Edison Electric Institute, Washington, D.C., 1982 *Statistical Year Book of the Electric Utility Industry* and 1983 *Annual Electric Power Survey*.

NO. 1000. ELECTRIC ENERGY—PRODUCTION AND INSTALLED GENERATING CAPACITY, BY STATES: 1975 TO 1982

[Capacity as of Dec. 31. Covers utilities for public use]

DIVISION AND STATE	PRODUCTION (bil. kWh)			INSTALLED CAPACITY (mil. kW)			DIVISION AND STATE	PRODUCTION (bil. kWh)			INSTALLED CAPACITY (mil. kW)		
	1975	1980	1982	1975	1980	1982		1975	1980	1982	1975	1980	1982
U.S.	1,917.6	2,286.4	2,241.2	508.3	613.5	667.5	SA.—Con.						
N.E.	69.9	78.2	77.0	20.4	21.1	22.4	Va.	35.3	34.3	36.6	9.7	11.7	12.0
Maine	7.9	7.9	8.3	1.7	2.4	2.9	W. Va.	61.4	70.8	68.3	11.9	15.2	15.8
N.H.	4.7	6.0	4.8	1.6	1.6	1.6	N.C.	53.3	72.1	74.5	15.0	15.6	17.9
Vt.	4.5	3.8	5.1	.9	.9	.9	S.C.	38.6	41.9	36.8	10.7	11.7	12.7
Mass.	30.5	34.6	34.0	9.4	9.6	10.4	Ga.	41.7	63.3	60.0	13.0	16.3	17.8
R.I. ....	.8	1.0	.4	.3	.3	.3	Fla.	77.8	95.9	92.0	21.7	29.0	31.4
Conn.	21.4	24.7	24.4	6.4	6.3	6.2	E.S.C.	171.8	214.1	209.3	46.1	53.3	60.2
M.A.	238.8	260.5	252.4	67.5	78.4	80.6	Ky.	51.1	57.1	58.1	12.1	13.6	16.0
N.Y.	107.3	108.6	101.9	28.4	31.4	32.1	Tenn.	54.6	60.2	59.5	14.3	15.9	18.9
N.J.	23.2	29.4	31.5	11.4	12.6	13.9	Ala.	54.7	78.3	74.7	15.2	18.2	19.5
Pa.	108.2	122.5	119.0	27.7	34.4	34.6	Miss.	11.4	18.5	17.0	4.6	5.5	6.2
E.N.C.	356.4	397.0	368.7	91.5	107.9	114.9	W.S.C.	234.0	313.1	316.3	65.8	84.7	98.7
Ohio	102.6	110.2	105.2	24.8	27.4	28.6	Ark.	13.7	19.7	23.5	4.9	7.2	8.2
Ind.	59.4	70.6	63.8	13.4	17.1	20.1	La.	39.2	45.7	41.5	11.6	12.9	16.9
Ill.	92.8	103.4	93.7	25.6	29.9	31.4	Okla.	33.3	44.6	44.9	7.9	11.3	12.5
Mich.	68.2	74.8	68.7	18.9	22.7	23.5	Tex.	147.8	203.0	206.4	41.4	53.3	61.2
Wis.	33.5	37.8	37.4	8.9	10.7	11.4	Mt.	111.5	158.8	169.5	27.6	35.8	41.9
W.N.C.	132.4	168.2	167.2	36.9	49.0	53.7	Mont.	11.9	15.5	14.8	2.4	3.2	3.2
Minn.	25.3	31.5	28.5	6.8	8.8	9.2	Idaho	10.3	9.5	11.6	1.7	2.0	2.0
Iowa	15.9	21.8	21.9	5.4	7.3	8.0	Wyo.	11.9	22.4	27.5	2.8	4.1	5.9
Mo.	40.4	48.9	49.1	11.1	13.8	15.9	Colo.	16.6	23.6	25.6	4.3	6.1	6.9
N. Dak.	8.3	15.8	18.3	1.7	3.4	3.8	N. Mex.	19.7	24.7	29.8	4.1	6.0	6.6
S. Dak.	10.1	8.6	7.9	2.1	2.2	2.3	Ariz.	21.7	36.9	38.7	7.5	9.4	11.2
Nebr.	13.3	16.3	18.3	3.8	5.1	6.0	Utah.	5.8	12.1	11.9	1.2	2.1	2.8
Kans.	19.1	25.1	23.2	6.0	8.3	8.5	Nev.	13.7	14.1	15.6	3.5	3.9	4.3
S.A.	342.3	417.8	405.0	92.5	111.5	120.5	Pac.	260.6	278.8	275.7	60.0	71.9	74.5
Del.	6.0	6.7	7.0	1.5	1.6	2.1	Wash.	93.0	92.3	96.7	16.8	23.0	21.8
Md.	26.9	32.2	29.8	7.6	9.2	10.0	Oreg.	34.5	36.6	50.8	7.6	8.5	10.9
D.C.	1.2	.7	.1	1.3	1.2	.9	Calif.	125.4	140.3	118.3	33.7	37.8	38.8
							Alaska.	2.2	3.1	3.6	.7	1.1	1.3
							Hawaii.	5.5	6.5	6.4	1.2	1.4	1.7

Source: U.S. Energy Information Administration, 1975 and 1980, *Power Production, Fuel Consumption, and Installed Capacity Data—Annual*; thereafter, *Electric Power Annual*.

NO. 1001. PRIVATELY AND PUBLICLY OWNED ELECTRIC UTILITY GENERATING PLANTS—NUMBER AND CAPACITY, BY TYPE AND SIZE OF PRIME MOVER: 1970 TO 1982

[Capacity as of Dec. 31. Each prime mover type in combination plants is counted separately]

TYPE AND SIZE OF PRIME MOVER	PRIVATELY OWNED						PUBLICLY OWNED					
	Number of prime movers			Capacity (mil. kW)			Number of prime movers			Capacity (mil. kW)		
	1970	1980	1982	1970	1980	1982	1970	1980	1982	1970	1980	1982
Total	2,037	2,094	2,087	262.8	477.0	499.1	1,496	1,481	1,448	78.8	136.6	151.0
Steam conventional.....	672	626	615	222.4	361.4	378.5	326	308	301	37.7	63.1	79.5
Under 100,000 kW.....	220	134	120	8.2	5.6	5.4	254	195	178	6.9	6.2	8.0
100,000-500,000 kW.....	299	239	232	77.1	64.0	62.4	58	75	79	12.3	17.4	18.9
Over 500,000 kW.....	153	253	263	137.1	291.8	310.7	14	38	44	18.5	39.6	48.5
Steam, nuclear.....	15	43	44	5.7	48.0	52.0	1	8	9	.8	8.5	11.0
Over 500,000 kW.....	7	37	39	4.5	46.8	50.9	1	7	8	.8	8.5	11.0
Hydro.....	754	732	739	18.9	24.2	24.6	434	410	429	36.3	52.1	53.5
Over 25,000 kW.....	165	173	173	15.6	21.0	21.4	164	186	191	35.1	51.0	52.3
Gas turbine.....	265	411	407	14.4	41.6	42.4	58	130	134	1.1	9.1	9.4
Over 25,000 kW.....	126	281	284	12.1	39.4	40.3	12	65	66	.4	8.0	8.3
Internal combustion.....	331	282	282	1.3	1.8	1.6	677	625	575	3.0	3.7	3.5
Under 5,000 kW.....	238	166	150	.5	.4	.3	471	358	322	1.0	.7	.7
Over 5,000 kW.....	93	116	112	.9	1.5	1.3	206	267	253	2.0	3.0	2.9

Source: U.S. Energy Information Administration, unpublished data.

NO. 1002. ELECTRIC UTILITIES—BALANCE SHEET AND INCOME ACCOUNT OF PRIVATELY OWNED COMPANIES: 1960 TO 1981

[In billions of dollars. As of Dec. 31. On the basis of both assets and revenues, these classes (A and B utilities) comprise nearly 100 percent of the privately-owned sector of the electric light and power industry. See also *Historical Statistics, Colonial Times to 1970*, series S 133-146 and V 197-212]

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981
COMPOSITE BALANCE SHEET											
Assets and other debits	44.7	56.4	87.4	143.0	157.1	173.1	192.1	211.1	234.8	260.0	286.0
Electric utility plant ¹	45.5	59.7	93.3	146.0	160.7	177.6	196.8	218.0	242.3	266.9	292.7
Depreciation and amortization.....	8.9	13.6	20.3	28.9	31.9	35.6	39.8	44.5	49.7	55.5	61.5
Net electric utility plant.....	36.6	46.1	73.0	117.1	128.8	142.0	157.0	173.5	192.6	211.5	231.2
Other utility plant.....	4.9	6.6	9.0	11.3	11.7	12.1	12.6	13.2	13.9	14.8	15.7
Depreciation and amortization.....	1.0	1.4	2.1	2.9	3.1	3.4	3.7	3.9	4.2	4.5	4.9
Net other utility plant.....	3.9	5.2	6.9	8.4	8.6	8.7	9.0	9.3	9.7	10.3	10.8
Total utility plant.....	50.3	66.3	102.3	157.3	172.4	189.7	209.4	231.2	256.2	281.7	308.4
Depreciation and amortization.....	9.9	15.0	22.3	31.7	35.0	38.9	45.5	48.4	53.9	60.0	66.4
Net total utility plant.....	40.5	51.3	79.9	125.6	137.4	150.7	166.0	182.8	202.3	221.7	242.0
Other property and investments.....	1.0	1.2	1.7	4.0	4.5	4.8	5.6	6.4	6.0	6.5	7.9
Current and accrued assets.....	3.1	3.6	5.3	11.9	13.5	15.6	18.2	18.9	22.4	26.2	28.7
Deferred debits.....	.2	.2	.4	1.6	1.7	2.0	2.3	3.0	4.1	5.5	7.3
Liabilities and other credits ²	44.7	56.4	87.4	143.0	157.1	173.1	192.1	211.1	234.8	260.0	286.0
Capital stock.....	13.3	15.7	20.8	34.0	37.8	41.6	45.6	49.1	53.8	59.3	63.9
Other paid-in capital.....	1.7	2.6	4.4	9.4	11.5	13.4	15.6	17.9	19.4	21.5	24.0
Retained earnings.....	3.7	5.7	9.4	13.3	14.7	16.2	17.8	19.4	21.0	22.7	25.0
Subsidiary earnings ³	(x)	(x)	(x)	.5	.6	.7	.8	.9	1.0	1.1	1.3
Long-term debt.....	21.0	25.5	41.9	64.5	70.8	76.2	82.2	88.3	95.7	105.3	115.5
Current and accrued liabilities.....	3.1	4.2	7.3	15.2	13.7	14.1	16.0	18.3	23.4	26.3	28.4
Deferred credits and operating reserves.....	.3	.5	.9	1.9	2.7	4.0	5.7	7.1	8.7	9.8	11.5
Deferred income taxes ⁴	1.3	1.8	2.2	4.2	5.4	6.8	8.3	10.0	11.9	14.1	16.7
COMPOSITE INCOME ACCOUNTS											
Electric operating revenues.....	10.1	13.4	19.8	37.2	44.6	50.6	58.9	65.4	72.9	87.1	102.3
Electric operating expenses.....	7.9	10.3	15.3	30.1	36.1	41.1	48.6	54.3	61.0	73.4	86.0
Net electric operating revenues.....	2.2	3.1	4.5	7.1	8.5	9.4	10.3	11.1	11.8	13.6	16.3
Other utility operating income.....	.2	.3	.4	.5	.5	.6	.6	.7	.7	.7	.9
Total utility operating income.....	2.4	3.4	4.9	7.6	9.0	10.1	10.9	11.7	12.5	14.4	17.0
Other income.....	.2	.2	.8	2.0	2.2	2.5	2.2	2.5	3.1	3.6	4.4
Total income.....	2.6	3.6	5.7	9.6	11.3	12.5	13.0	14.3	15.6	18.0	21.4
Income deductions.....	.8	1.0	2.3	4.5	5.1	5.4	5.0	5.5	6.1	7.3	8.7
Net income ⁵	1.8	2.6	3.4	5.6	6.1	7.2	8.0	8.7	9.5	10.7	12.7

X Not applicable. ¹ Includes construction work in progress. ² Includes contributions in aid of construction through 1970.

³ Unappropriated undistributed. ⁴ Cumulative. ⁵ Beginning 1974, includes net extraordinary income.

Source: 1960-1975, U.S. Federal Power Commission; thereafter, U.S. Energy Information Administration, *Statistics of Privately Owned Electric Utilities in the United States*, annual.

NO. 1003. ELECTRIC ENERGY SALES, BY CLASS OF SERVICE, AND STATE: 1982

[In billions of kilowatthours]

DIVISION AND STATE	Total ¹	Residential	Commercial	Industrial	DIVISION AND STATE	Total ¹	Residential	Commercial	Industrial
Total	2,086.4	729.5	526.4	744.9	S.A.—Con.				
N.E.	80.0	29.7	25.2	22.9	Va.....	51.2	20.3	12.7	12.3
Maine.....	8.7	3.2	1.6	3.7	W. Va.....	20.8	6.6	4.0	8.9
N.H.....	6.0	2.5	1.2	2.3	N.C.....	62.3	24.0	14.7	22.6
Vt.....	3.8	1.7	.7	1.2	S.C.....	40.3	13.5	8.1	17.6
Mass.....	34.5	12.0	12.5	8.7	Ga.....	52.6	20.1	12.7	19.0
R.I.....	4.9	1.8	1.7	1.2	Fla.....	92.5	45.1	29.6	14.7
Conn.....	22.1	8.5	7.4	5.9	E.S.C.	180.9	63.8	35.9	77.2
M.A.	249.3	77.9	72.1	86.0	Ky.....	47.1	13.7	7.2	24.4
N.Y.....	105.0	30.6	33.6	30.5	Tenn.....	65.8	24.6	14.8	25.5
N.J.....	48.8	15.9	17.3	15.2	Ala.....	45.1	15.8	8.6	20.0
Pa.....	94.6	31.5	21.2	40.3	Miss.....	23.0	9.7	5.3	7.4
E.N.C.	356.5	116.0	82.2	142.4	W.S.C.	300.9	101.5	67.7	119.7
Ohio.....	101.9	32.8	22.6	42.6	Ark.....	22.3	8.6	4.4	8.6
Ind.....	58.9	19.3	10.4	28.3	La.....	56.7	18.0	10.0	24.7
Ill.....	92.4	28.6	25.7	30.4	Okla.....	35.8	14.1	8.7	10.3
Mich.....	65.6	21.3	14.4	27.6	Tex.....	166.1	60.7	44.6	76.1
Wis.....	37.6	14.0	9.1	13.4	Mt.	116.6	39.1	32.0	41.4
W.N.C.	149.1	58.8	35.5	49.4	Mont.....	10.3	3.2	2.2	4.8
Minn.....	33.9	12.8	5.6	14.3	Idaho.....	10.1	5.5	4.3	6.0
Iowa.....	26.4	10.2	5.9	9.3	Wyo.....	8.1	1.8	1.4	4.7
Mo.....	41.9	16.7	11.2	12.4	Colo.....	23.7	9.1	9.5	4.7
N. Dak.....	6.0	2.9	1.1	1.7	N. Mex.....	8.8	2.4	2.3	2.9
S. Dak.....	5.1	2.6	1.1	1.3	Ariz.....	26.9	9.5	8.3	8.1
Nebr.....	14.0	5.8	3.9	3.5	Utah.....	12.4	3.8	2.5	5.4
Kans.....	21.8	7.7	6.8	6.9	Nev.....	10.6	3.8	1.6	4.9
S.A.	366.9	144.8	94.6	114.3	Pac.	285.9	98.1	81.2	91.7
Del.....	5.1	1.5	1.3	2.1	Wash.....	75.5	29.2	14.2	28.2
Md. ²	42.2	13.6	11.6	16.2	Oreg.....	34.8	13.8	8.6	11.8
					Calif.....	165.8	51.9	56.4	47.3
					Alaska.....	3.3	1.4	.6	1.1
					Hawaii.....	6.5	1.8	1.3	3.2

¹ Includes other service, not shown separately. ² Includes District of Columbia.Source: U.S. Energy Information Administration, *Electric Power Annual*.

NO. 1004. ELECTRIC LIGHT AND POWER INDUSTRY—ENERGY GENERATED, SALES, REVENUE, AND CUSTOMERS: 1960 TO 1982

[Sales and revenue are to and from ultimate customers]

CLASS	Unit	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981	1982
Energy generated ¹	Bil. kWh.....	753	1,055	1,532	1,918	2,038	2,124	2,206	2,247	2,286	2,295	2,241
Sales ²	Bil. kWh.....	683	953	1,391	1,733	1,850	1,951	2,018	2,084	2,126	2,151	2,094
Residential or domestic.....	Bil. kWh.....	196	281	448	586	613	652	679	696	734	730	729
Percent of total.....	Percent.....	28.7	29.5	32.2	33.8	33.2	33.4	33.6	33.4	34.5	34.0	34.8
Commercial ³	Bil. kWh.....	115	202	313	418	441	469	481	495	524	522	514
Industrial ⁴	Bil. kWh.....	345	433	573	662	725	757	782	818	794	820	771
Revenue ²	Bil. dol.....	11.5	15.2	22.1	46.9	53.5	62.6	69.9	79.6	95.5	110.6	121.1
Residential or domestic.....	Bil. dol.....	4.9	6.3	9.4	18.8	21.1	24.7	27.4	31.0	37.6	42.4	47.0
Percent of total.....	Percent.....	42.2	41.8	42.7	40.1	33.6	39.4	39.2	38.9	39.4	38.3	38.8
Commercial ³	Bil. dol.....	2.8	4.3	6.3	13.5	15.2	18.0	19.7	22.3	27.4	31.3	33.9
Industrial ⁴	Bil. dol.....	3.3	3.9	5.4	12.7	15.0	17.6	20.3	23.8	27.3	39.0	35.9
Ultimate customers, Dec. 31 ²	Million.....	58.9	65.6	72.5	81.8	83.6	85.6	87.7	89.8	92.7	94.0	95.3
Residential or domestic.....	Million.....	51.4	57.6	64.0	72.6	74.2	75.9	77.8	79.6	82.2	83.3	84.4
Commercial ³	Million.....	6.8	7.4	7.9	8.6	8.8	8.9	9.1	9.4	9.7	9.8	10.0
Industrial ⁴	Million.....	.5	.3	.4	.4	.4	.4	.5	.5	.5	.5	.5
Avg. kWh used per customer	1,000.....	11.7	14.7	19.4	21.4	22.4	23.1	23.3	23.5	23.2	23.0	22.1
Residential.....	1,000.....	3.9	4.9	7.1	8.2	8.4	8.7	8.8	8.8	9.0	8.8	8.7
Commercial ³	1,000.....	17.0	27.4	40.0	49.0	50.7	52.9	53.1	53.2	54.5	53.4	52.0
Avg. annual bill per customer	Dollar.....	198	234	308	578	646	740	807	897	1,040	1,184	1,280
Residential.....	Dollar.....	95	111	148	282	288	329	357	391	462	512	561
Commercial ³	Dollar.....	418	584	803	1,582	1,755	2,031	2,176	2,394	2,848	3,207	3,429
Avg. revenue per kWh sold	Cents.....	1.69	1.59	1.59	2.70	2.89	3.21	3.46	3.82	4.49	5.14	5.79
Residential.....	Cents.....	2.47	2.25	2.10	3.21	3.45	3.78	4.03	4.43	5.12	5.80	6.45
Commercial ³	Cents.....	2.46	2.13	2.01	3.23	3.46	3.84	4.10	4.50	5.22	6.00	6.60
Industrial ⁴	Cents.....	.97	.90	.95	1.92	2.07	2.33	2.59	2.91	3.44	4.03	4.66

¹ Source: 1960-1975, U.S. Federal Power Commission; thereafter, U.S. Energy Information Administration, *Monthly Energy Review*. ² Includes other types not shown separately. ³ Small light and power. ⁴ Large light and power.Source: Except as noted, Edison Electric Institute, Washington, D.C., *Statistical Year Book*.

**NO. 1005. PRIVATELY OWNED GAS UTILITY INDUSTRY—BALANCE SHEET AND INCOME ACCOUNT:
1960 TO 1982**

[In millions of dollars. Excludes Alaska for 1960. The gas utility industry consists of pipeline and distribution companies. Excludes operations of companies distributing gas in bottles or tanks. See also *Historical Statistics, Colonial Times to 1970*, series S 205-218]

ITEM	1960	1965	1970	1975	1977	1978	1979	1980	1981	1982
COMPOSITE BALANCE SHEET										
Assets, total ¹	20,000	25,640	34,929	50,286	59,697	62,918	70,245	75,725	86,894	95,133
Total utility plant.....	20,835	28,205	38,541	49,384	55,020	59,033	62,710	68,787	72,917	78,636
Depreciation and amortization.....	4,570	7,205	10,696	16,779	20,586	22,861	24,400	26,062	28,908	31,439
Utility plant (net).....	16,265	21,000	27,845	32,605	34,434	36,172	38,310	40,705	44,009	47,197
Investment and fund accounts ¹	1,380	1,885	3,024	9,198	12,513	12,805	14,097	15,625	19,368	20,754
Current and accrued assets.....	2,185	2,545	3,674	7,543	11,184	12,129	15,427	17,211	20,563	23,593
Deferred debits ²	170	210	386	940	1,556	1,815	2,411	2,184	2,954	3,589
Liabilities, total ¹	20,000	25,640	34,929	50,286	59,697	62,918	70,245	75,725	86,894	95,133
Capitalization, total ¹	16,940	21,520	28,646	39,044	44,316	45,830	48,165	51,299	57,512	62,468
Capital stock ¹	7,810	10,005	12,965	19,500	23,840	25,585	27,135	29,262	32,041	36,267
Long-term debts.....	9,130	11,515	15,681	19,544	20,476	20,245	21,030	22,037	24,471	26,201
Current and accrued liabilities.....	2,420	3,035	4,832	8,158	10,636	11,704	16,024	18,107	22,134	23,839
Deferred income taxes ³	350	660	788	2,052	2,794	2,991	3,798	4,144	4,972	5,485
Other liabilities and credits.....	290	425	663	1,032	1,951	2,393	2,257	2,175	2,276	3,341
COMPOSITE INCOME ACCOUNT										
Operating revenues, total.....	8,696	11,525	16,380	30,550	46,309	52,995	66,931	85,807	101,593	115,875
Operating expenses ⁴	7,587	10,063	14,308	27,480	42,685	49,272	62,887	81,517	96,917	110,451
Operation and maintenance.....	5,951	7,973	11,636	22,957	36,958	43,108	56,281	74,433	89,108	101,721
Federal, State, and local taxes.....	1,058	1,292	1,569	2,763	3,719	3,980	4,294	4,853	5,066	5,708
Operating income.....	1,109	1,462	2,074	3,070	3,624	3,723	4,043	4,290	4,676	5,424
Utility operating income.....	1,137	1,503	2,159	3,221	3,776	3,944	4,296	4,633	5,087	5,832
Income before interest charges ¹	1,247	1,680	2,457	4,127	4,986	5,385	6,203	7,112	8,369	8,756
Net income ¹	830	1,107	1,427	2,502	3,183	3,443	4,208	4,377	5,145	5,081
Dividends.....	581	781	1,006	1,509	1,959	2,117	2,362	2,566	3,064	3,302

¹ Beginning 1975, not comparable with earlier years due to Federal Power Commission ruling requiring adoption of the equity method in reporting earnings of subsidiaries. ² Includes capital stock discount and expense and reacquired securities.

³ Includes reserves for deferred income taxes. ⁴ Includes expenses not shown separately.

NO. 1006. GAS UTILITY INDUSTRY—SUMMARY: 1960 TO 1982

[1960 excludes Alaska. Covers natural, manufactured, mixed, and liquid petroleum gas. Based on questionnaire mailed to all privately and municipally owned gas utilities in U.S., except those with annual revenues less than \$25,000. See also *Historical Statistics, Colonial Times to 1970*, series S 190-204]

ITEM	Unit	1960	1965	1970	1975	1977	1978	1979	1980	1981	1982
Customers ¹											
Residential.....	1,000	33,054	37,338	41,482	44,555	45,274	45,789	46,478	47,225	47,947	48,417
Commercial.....	1,000	30,418	34,341	38,097	40,950	41,682	42,183	42,821	43,489	44,149	44,554
Industrial and other.....	1,000	2,458	2,790	3,131	3,367	3,371	3,370	3,423	3,500	3,564	3,631
.....	1,000	178	207	254	237	220	236	234	236	234	232
Sales ²											
Residential.....	Tril. Btu ³	9,288	11,980	16,044	14,863	14,341	14,748	15,440	15,413	15,375	14,281
Percent of total.....	Tril. Btu.....	3,188	3,999	4,923	4,991	4,946	5,107	5,083	4,826	4,610	4,770
Commercial.....	Percent.....	34.3	33.4	30.7	33.6	34.5	34.6	32.9	31.3	30.0	33.4
Industrial.....	Tril. Btu.....	920	1,345	2,007	2,387	2,409	2,500	2,486	2,453	2,376	2,471
Other.....	Tril. Btu.....	4,710	6,146	8,439	6,837	6,711	6,841	7,555	7,957	8,239	6,892
.....	Tril. Btu.....	470	490	674	648	275	301	316	177	150	148
Revenues ³											
Residential.....	Mil. dol.....	5,617	7,407	10,283	19,101	28,303	32,150	38,947	48,303	56,110	63,391
Percent of total.....	Mil. dol.....	3,177	4,030	5,207	8,445	11,541	12,939	14,833	17,432	19,180	23,701
Commercial.....	Percent.....	56.6	54.4	50.6	44.2	40.8	40.2	38.1	34.2	32.4	37.4
Industrial.....	Mil. dol.....	723	1,054	1,820	3,302	4,980	5,696	6,624	8,183	9,286	11,666
Other.....	Mil. dol.....	1,563	2,146	3,181	6,745	11,385	13,065	16,961	22,215	27,124	27,389
.....	Mil. dol.....	153	176	274	608	397	450	530	473	520	635
Prices per mil. Btu ⁴											
Residential.....	Dollars.....	.60	.62	.64	1.29	1.97	2.18	2.52	3.13	3.65	4.44
Commercial.....	Dollars.....	1.00	1.01	1.06	1.69	2.33	2.53	2.92	3.61	4.16	4.97
Industrial.....	Dollars.....	.79	.78	.81	1.38	2.07	2.28	2.66	3.34	3.91	4.72
.....	Dollars.....	.33	.35	.38	.99	1.70	1.91	2.24	2.79	3.29	3.97
Gas mains mileage											
Field and gathering.....	1,000.....	631	768	913	980	998	1,013	1,030	1,052	1,070	1,083
Transmission.....	1,000.....	56	62	66	68	71	75	78	84	86	90
Distribution.....	1,000.....	184	211	252	263	260	261	263	266	270	272
.....	1,000.....	391	495	595	649	667	678	688	702	714	721
Construction expenditures ⁴											
Transmission.....	Mil. dol.....	1,845	1,935	2,506	2,466	2,833	3,581	4,366	5,350	6,389	5,939
Distribution.....	Mil. dol.....	848	770	1,019	590	670	935	1,226	1,583	2,352	1,921
Production and storage.....	Mil. dol.....	698	824	913	910	1,048	1,228	1,448	1,869	1,995	1,881
.....	Mil. dol.....	216	225	370	831	943	1,202	1,406	1,546	1,672	1,680

¹ Annual average. ² Excludes sales for resale. ³ For definition, see text, p. 571. ⁴ Includes general.

Source of tables 1005 and 1006: American Gas Association, Arlington, Va., *Gas Facts*, annual. (Copyright.)

NO. 1007. GAS UTILITY INDUSTRY—CUSTOMERS, SALES, AND REVENUES, BY CLASS OF SERVICE, AND STATES: 1982

[See headnote, table 1006]

DIVISION AND STATE	CUSTOMERS ¹ (1,000)				SALES ² (trillion Btu ⁴)				REVENUES ³ (mil. dol.)			
	Total ²	Residential	Commercial	Industrial	Total ²	Residential	Commercial	Industrial	Total ²	Residential	Commercial	Industrial
U.S.....	48,417	44,554	3,631	186	14,281	4,770	2,471	6,892	63,391	23,701	11,666	27,389
N. Eng.....	1,775	1,632	131	9	324	150	100	72	2,198	1,146	644	393
Maine.....	15	12	3	(2)	3	1	1	1	19	5	8	5
N.H.....	53	46	6	(2)	10	4	4	2	63	31	23	8
Vt.....	16	14	1	(2)	5	2	1	2	30	11	6	12
Mass.....	1,098	1,016	74	5	199	94	64	39	1,315	701	401	200
R.I.....	176	163	12	1	28	15	5	8	201	118	38	45
Conn.....	417	381	34	2	79	34	25	20	570	280	167	123
Mid. Atl.....	8,203	7,604	565	24	1,641	786	324	495	8,983	4,722	1,770	2,305
N.Y.....	3,963	3,705	240	11	650	353	124	148	3,730	2,211	676	710
N.J.....	1,870	1,688	175	7	334	152	80	102	2,047	1,038	499	510
Pa.....	2,370	2,211	150	6	657	281	120	245	3,206	1,473	595	1,085
E. No. Cent.....	10,941	10,097	793	48	3,342	1,518	697	1,116	14,487	6,935	3,000	4,508
Ohio.....	2,767	2,563	195	7	790	379	159	246	3,599	1,816	720	1,031
Ind.....	1,282	1,174	103	5	467	165	72	227	1,798	686	283	821
Ill.....	3,326	3,060	247	18	1,050	494	238	317	4,401	2,161	967	1,272
Mich.....	2,497	2,324	163	10	724	361	171	191	3,149	1,606	752	790
Wis.....	1,089	976	85	8	311	119	57	135	1,540	666	278	594
W. No. Cent.....	4,252	3,836	400	14	1,224	490	295	434	5,169	2,282	1,250	1,622
Minn.....	856	778	73	5	252	107	50	95	1,154	532	238	382
Iowa.....	759	676	81	2	231	86	53	92	866	398	228	340
Mo.....	1,224	1,129	93	1	285	140	88	55	1,334	701	406	222
N. Dak.....	91	80	11	(2)	24	11	12	1	106	51	49	6
S. Dak.....	107	95	12	(2)	25	12	8	5	109	54	34	20
Nebr.....	456	395	59	1	133	51	35	47	501	215	127	159
Kans.....	759	683	71	5	274	83	49	139	1,000	331	168	493
So. Atl.....	4,194	3,899	335	14	1,229	399	240	641	5,692	1,875	1,190	2,590
Del.....	84	78	5	(2)	24	7	4	12	127	40	21	62
Md.....	788	732	51	5	155	69	31	55	865	418	174	272
D.C.....	147	132	15	-	29	13	16	-	183	85	98	-
Va.....	542	495	45	2	140	47	38	53	715	277	200	226
W. Va.....	393	361	32	(2)	113	45	22	46	537	225	106	206
N.C.....	395	348	44	2	141	32	25	83	668	175	124	366
S.C.....	312	277	30	1	100	19	17	64	454	101	78	272
Ga.....	1,063	1,003	77	2	292	93	58	141	1,262	462	253	546
Fla.....	460	413	36	1	235	14	29	187	681	92	136	640
E. So. Cent.....	2,234	2,016	202	6	710	189	111	395	2,924	887	486	1,493
Ky.....	643	584	56	1	156	68	30	53	682	310	134	215
Tenn.....	520	451	63	2	196	43	41	109	776	182	179	407
Ala.....	674	623	46	2	192	51	26	115	826	265	113	446
Miss.....	397	358	37	1	166	27	14	118	640	130	60	425
W. So. Cent.....	5,712	5,208	473	24	3,243	420	245	2,528	12,006	1,918	1,038	8,856
Ark.....	514	454	58	2	210	46	30	134	703	172	105	426
La.....	1,017	945	68	2	469	68	26	363	1,723	330	124	1,214
Okla.....	862	779	79	3	454	81	46	327	1,296	273	152	869
Tex.....	3,319	3,030	268	17	2,116	225	143	1,714	8,284	1,143	657	6,347
Mt.....	2,842	2,577	253	7	709	257	158	277	2,993	1,194	716	1,012
Mont.....	187	165	21	(2)	50	21	14	12	231	89	67	64
Idaho.....	112	96	15	(2)	34	7	9	18	183	47	49	86
Wyo.....	129	114	14	(2)	53	15	9	28	198	65	38	87
Colo.....	908	810	98	2	200	85	64	50	916	418	283	202
N. Mex.....	344	308	31	3	100	29	15	46	390	133	64	154
Ariz.....	588	543	43	2	113	31	22	58	500	173	101	218
Utah.....	393	366	27	(2)	110	52	16	42	337	178	55	104
Nev.....	181	175	6	(2)	49	17	9	23	238	91	49	97
Pac.....	8,264	7,745	479	40	1,859	621	301	934	8,939	2,742	1,572	4,610
Wash.....	384	337	44	3	113	31	31	51	651	197	185	267
Oreg.....	287	251	35	1	68	19	17	32	402	130	103	169
Calif.....	7,510	7,084	393	33	1,638	580	248	828	7,790	2,385	1,267	4,125
Alaska.....	50	44	5	1	37	10	4	22	48	19	6	23
Hawaii.....	33	29	2	2	3	1	1	1	48	11	11	26

- Represents zero. 2 Fewer than 500. 1 Averages for the year. 2 Includes other service, not shown separately.

3 Excludes sales for resale. 4 For definition, see headnote, table 976.

Source: American Gas Association, Arlington, Va., *Gas Facts*, annual. (Copyright.)

NO. 1008. GAS UTILITY INDUSTRY—PRICES, BY STATE: 1982

(In dollars per million Btu. For definition of Btu, see headnote, table 976. Excludes sales for resale)

STATE	Total	Residential	Commercial	Industrial	STATE	Total	Residential	Commercial	Industrial	STATE	Total	Residential	Commercial	Industrial
U.S.....	4.44	4.97	4.72	3.97	Kans.....	3.65	3.99	3.43	3.55	N. Dak.....	4.36	4.61	4.18	4.02
Ala.....	4.31	5.24	4.41	3.88	Ky.....	4.35	4.53	4.43	4.10	Ohio.....	4.56	4.80	4.53	4.20
Alaska.....	1.32	1.83	1.57	1.04	La.....	3.73	4.87	4.66	3.44	Okl.....	2.85	3.99	3.30	2.66
Ariz.....	4.43	5.49	4.82	3.79	Maine.....	7.12	8.31	7.05	6.39	Oreg.....	5.91	6.64	6.11	5.35
Ark.....	3.35	3.73	3.56	3.17	Mass.....	6.62	7.47	6.32	5.10	Pa.....	4.88	5.24	4.95	4.42
Calif.....	4.76	4.26	5.12	4.98	Mich.....	4.35	4.44	4.39	4.14	R.I.....	7.07	7.69	7.36	5.68
Colo.....	4.57	4.93	4.54	4.03	Minn.....	4.58	4.98	4.75	4.04	S.C.....	4.54	5.42	4.55	4.27
Conn.....	7.21	8.35	6.68	5.99	Miss.....	3.86	4.72	4.47	3.60	S. Dak.....	4.32	4.67	4.12	3.84
Del.....	5.32	5.85	5.53	5.15	Mo.....	4.69	5.00	4.63	4.02	Tenn.....	3.97	4.27	4.33	3.72
D.C.....	6.36	6.56	6.19	(x)	Mont.....	4.66	4.22	4.60	5.49	Tex.....	3.92	5.08	4.58	3.70
Fla.....	3.76	6.51	4.63	3.41	Nebr.....	3.78	4.18	3.66	3.41	Utah.....	3.06	3.42	3.47	2.47
Ga.....	4.32	4.97	4.36	3.87	Nev.....	4.80	5.30	5.56	4.15	Va.....	5.10	5.84	5.31	4.28
Hawaii.....	14.97	17.28	14.01	14.56	N.H.....	6.06	6.52	6.12	4.67	Wash.....	5.76	6.46	5.87	5.27
Idaho.....	5.30	6.45	5.52	4.72	N.J.....	6.14	6.84	6.24	5.00	W. Va.....	4.73	4.97	4.77	4.49
Ill.....	4.19	4.38	4.06	4.01	N. Mex.....	3.92	4.64	4.27	3.36	Wis.....	4.95	5.57	4.91	4.41
Ind.....	3.86	4.17	3.96	3.61	N.Y.....	5.73	6.26	5.46	4.81	Wyo.....	3.74	4.40	4.31	3.14
Iowa.....	4.18	4.64	4.28	3.89	N.C.....	4.74	5.42	4.96	4.41					

X Not applicable.

Source: American Gas Association, Arlington, Va., *Gas Facts*, annual (copyright).

NO. 1009. WATER POWER—DEVELOPED AND UNDEVELOPED CAPACITY, BY DIVISION: 1950 TO 1981

(In millions of kilowatts. As of Dec. 31. Excludes Alaska and Hawaii for 1950 and all capacity of reversible equipment at pumped storage projects (13.1 million kW in 1981). Also excludes capacity precluded from development due to wild and scenic river legislation. See also *Historical Statistics, Colonial Times to 1970*, series S 160-175)

DIVISION	DEVELOPED INSTALLED CAPACITY							ESTIMATED UNDEVELOPED CAPACITY						
	1950	1960	1965	1970	1975	1980	1981	1950	1960	1965	1970	1975	1980	1981
U.S.....	18.7	33.2	44.5	52.0	57.0	64.4	65.5	87.6	114.2	124.1	128.0	113.7	129.9	108.7
New England.....	1.2	1.5	1.5	1.5	1.5	1.5	1.5	3.3	2.9	3.2	3.3	3.3	4.7	4.6
Middle Atlantic.....	1.7	2.5	4.8	4.3	4.2	4.3	4.3	6.6	7.6	5.0	4.5	4.3	5.1	5.3
E. No. Central.....	.9	.9	.9	.9	.9	.9	1.0	2.3	3.0	1.4	1.6	1.4	2.0	2.0
W. No. Central.....	.6	1.6	3.0	2.7	2.8	2.8	2.8	5.8	6.4	4.1	4.4	2.1	3.4	3.4
South Atlantic.....	2.8	3.8	5.2	5.3	5.8	5.9	6.0	8.2	8.4	10.0	9.6	8.4	9.6	8.9
E. So. Central.....	2.7	3.8	4.5	5.2	5.5	5.6	5.6	4.7	4.6	4.3	3.8	3.1	3.3	2.7
W. So. Central.....	.5	.9	1.7	1.9	2.3	2.3	2.3	3.6	3.9	3.1	3.3	2.7	4.7	4.6
Mountain.....	2.3	4.6	5.6	6.2	6.9	7.4	7.7	23.4	23.6	26.5	26.7	19.6	34.2	20.6
Pacific.....	6.0	13.6	17.4	23.9	27.2	33.7	34.3	29.8	53.8	66.5	70.9	68.8	62.9	56.6

Source: 1950-1975, U.S. Federal Power Commission, *Hydroelectric Power Resources of the United States, Developed and Undeveloped*, Jan. 1, 1976; thereafter, U.S. Federal Energy Regulatory Commission, *Hydroelectric Power Resources of the United States, Developed and Undeveloped*, Jan. 1, 1980, and unpublished data.

NO. 1010. SOLAR COLLECTOR SHIPMENTS, BY TYPE, END-USE, AND MARKET SECTOR: 1974 TO 1982

(In thousands of square feet, except number of manufacturers. Solar collector is a device for intercepting sunlight, converting the sunlight to heat, and carrying the heat to where it will be either used or stored)

YEAR	Number of manufacturers	Total shipments ¹	COLLECTOR TYPE		END USE			MARKET SECTOR		
			Low temperature	Medium temperature, special, other	Pool heating	Hot water	Space heating	Residential	Commercial	Industrial
1974.....	45	1,274	1,137	137	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1975.....	131	3,743	3,026	717	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1976.....	186	5,801	3,876	1,925	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1977.....	321	10,312	4,743	5,569	6,334	1,713	1,699	7,978	1,680	105
1978.....	340	10,860	5,872	4,988	5,970	2,513	1,736	8,095	1,848	263
1979.....	349	14,251	8,395	5,857	8,551	2,958	1,722	11,387	2,015	314
1980.....	276	19,398	12,233	7,165	12,029	4,790	1,888	16,077	2,417	488
1981.....	282	20,133	8,677	11,456	9,781	7,204	2,017	15,773	2,561	1,518
1982.....	273	18,617	7,476	11,140	7,035	7,445	2,361	13,725	4,789	580

NA Not available. ¹ Includes other end uses and market sectors not shown separately.Source: U.S. Energy Information Administration, *Solar Collector Manufacturing Activity*, semiannual.

NO. 1011. NUCLEAR POWER PLANTS—NUMBER, CAPACITY, AND GENERATION: 1965 TO 1982

ITEM	1965	1970	1973	1975	1976	1977	1978	1979	1980	1981	1982, prel.
Licensed reactors ¹	10	19	40	58	65	68	72	71	72	74	79
Capacity ¹ (mil. kW).....	.9	6.5	19.8	35.8	44.6	47.2	50.8	50.9	52.6	55.5	59.7
Percent of total electric utility capacity.....	.4	1.9	4.5	7.0	8.4	8.4	8.8	8.5	8.6	8.7	9.2
Electricity generated (bil. kWh).....	4	22	84	173	191	251	276	255	251	273	283
Percent of total electric utility generation.....	.4	1.4	4.5	9.0	9.4	11.8	12.5	11.4	11.0	11.9	12.6

¹ As of yearend. Includes plants shut down permanently or for extended periods.

Source: U.S. Energy Information Administration, *Annual Energy Review*.

NO. 1012. COMMERCIAL NUCLEAR POWER GENERATION, BY COUNTRY: 1970 TO 1982

[Generation for calendar years; other data as of December. Excludes Communist countries]

COUNTRY	REACTORS				ELECTRICITY GENERATED ¹ (bil. kWh)				GROSS CAPACITY (1,000 kW)			
	1970	1980	1981	1982	1970	1980	1981	1982	1970	1980	1981	1982
Total	64	208	224	239	73.9	617.8	728.8	791.5	15,186	128,847	145,088	163,369
U.S.	15	74	77	81	23.2	265.2	288.6	298.9	5,211	56,529	61,036	65,420
Argentina	-	1	1	1	-	2.3	2.8	1.9	-	357	357	367
Belgium	1	3	3	5	.3	12.5	12.8	15.6	11	1,744	1,744	3,621
Brazil	-	-	-	1	-	-	-	-	-	-	-	857
Canada	1	9	9	12	.9	40.4	43.3	42.6	220	5,588	5,588	7,587
China: Taiwan	-	2	3	4	-	8.2	10.7	13.1	-	1,272	2,257	3,242
Germany, F.R. of	4	11	11	12	5.3	43.7	53.3	63.4	907	8,996	8,996	10,316
Great Britain	27	33	33	32	26.5	37.2	38.9	44.1	4,783	9,012	9,012	8,979
Finland	-	4	4	4	-	7.0	14.5	16.5	-	2,296	2,296	2,296
France	4	22	30	32	5.7	61.2	105.2	108.9	1,606	15,412	23,068	27,633
India	2	4	4	4	2.2	2.9	3.1	2.2	400	860	860	860
Italy	3	4	4	3	3.3	2.2	2.7	6.8	631	1,490	1,490	1,330
Japan	3	22	23	25	3.3	81.0	83.5	104.5	828	15,117	15,676	17,342
Korea, Rep. of	-	1	1	1	-	3.5	2.9	3.8	-	587	587	587
Netherlands	1	2	2	2	.4	4.2	3.7	3.9	55	529	529	535
Pakistan	-	1	1	1	-	.1	.2	.1	-	137	137	137
Spain	1	3	4	4	.9	5.2	9.4	8.8	160	1,117	2,047	2,047
Sweden	1	8	9	10	(2)	26.7	37.7	38.8	12	5,770	6,710	7,715
Switzerland	1	4	4	4	1.9	14.3	15.2	15.0	364	2,034	2,034	2,034
Yugoslavia	-	-	1	1	-	-	.3	2.5	-	-	664	664

- Represents zero. Z Less than 50 million kWh. ¹ Gross.

Source: McGraw-Hill, Inc., New York, N.Y., *Nucleonics Week*, December issues. (Copyright.)

NO. 1013. URANIUM SUPPLY, ENRICHMENT, AND DISCHARGED COMMERCIAL REACTOR FUEL: 1965 TO 1982

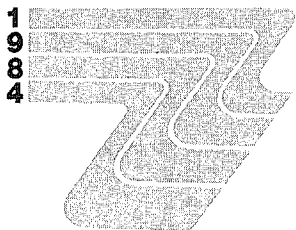
[Years ending Dec. 31. Metric ton=1.102 short tons or .984 long ton]

ITEM	Unit	1965	1970	1975	1977	1978	1979	1980	1981	1982
URANIUM (U₂O₈)										
Production.....	Sh. tons.....	10,442	12,905	11,600	14,940	18,490	18,730	21,850	19,240	13,430
Exports	Sh. tons.....	-	2,100	500	2,000	3,400	3,100	2,900	2,200	1,900
Imports	Sh. tons.....	3,995	-	700	2,800	2,600	1,500	1,800	3,300	3,800
Delivered price	Dol./lb.....	(NA)	(NA)	10.50	19.75	21.60	23.85	26.00	32.20	39.97
ENRICHMENT										
Enriched product.....	Metric tons.....	146	1,548	2,707	3,117	3,023	3,507	2,955	2,742	3,243
For domestic customers	Metric tons.....	47	1,176	1,190	1,881	1,506	2,270	1,905	1,899	1,874
For foreign customers	Metric tons.....	99	372	1,517	1,236	1,517	1,237	1,050	843	1,369
Cost of services	Mil. dol.....	(NA)	83.8	562.6	659.1	877.2	1,234	1,360	1,445	2,185
DISCHARGED COMMERCIAL REACTOR FUEL¹										
Annual discharge	Metric tons.....	(NA)	67	547	911	1,131	1,226	1,295	1,143	1,079
Inventory, yearend	Metric tons.....	(NA)	² 161	1,584	3,225	4,333	5,558	6,854	³ 7,987	³ 9,076
On-site storage	Metric tons.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	8,337
Off-site storage	Metric tons.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	479	479

- Represents zero. NA Not available. ¹ Uranium content. Source: Nuclear Assurance Corporation, Atlanta, Ga.

² Allows for reprocessing. ³ Does not include 260 MTU of reprocessed fuel.

Source: Except as noted, U.S. Energy Information Administration, *Annual Energy Review*; U.S. Dept. of Energy, *Statistical Data of the Uranium Industry, 1981*; and unpublished data.



Section 21

Science

This section presents statistics on scientific, engineering, and technological resources, with emphases on patterns of research and development (R&D) funding and on scientific, engineering, and technical personnel and education. Also included are statistics on space program outlays and accomplishments. Principal sources of these data are the National Science Foundation (NSF) and the National Aeronautics and Space Administration (NASA).

NSF gathers data chiefly through recurring surveys. Some current NSF publications containing data on funds for research and development and on scientific and engineering personnel include *Science Resources Studies Highlights* and the occasional bulletin series, *Reviews of Data on Science Resources*; and annual, biennial, and special reports such as *Federal Funds for Research and Development*; *Research and Development in Industry*; *National Patterns of Science and Technology Resources*; *Academic Science: R&D Funds, Scientists and Engineers, Graduate Enrollment and Support*; *Scientists and Engineers From Abroad*; *Federal Scientific and Technical Personnel*; *Federal Support to Universities, Colleges, and Selected Nonprofit Institutions*; *Characteristics of Doctoral Scientists and Engineers in the United States*; *U.S. Scientists and Engineers*; *Employment Attitudes of Recent Science and Engineering Graduates*; *Science and Engineering Employment*; *Characteristics of Experienced Scientists and Engineers*; *Scientists, Engineers, and Technicians in Private Industry*; *Science and Engineering Personnel: A National Overview*; and policy reports relating to national allocation of human resources and funds to science and technology. Statistical surveys in these areas pose particularly difficult problems of concept and definition and the data should, therefore, be regarded as broad estimates rather than precise quantitative statements. Detailed discussions of the scope and limitations of the data appear in the source publications.

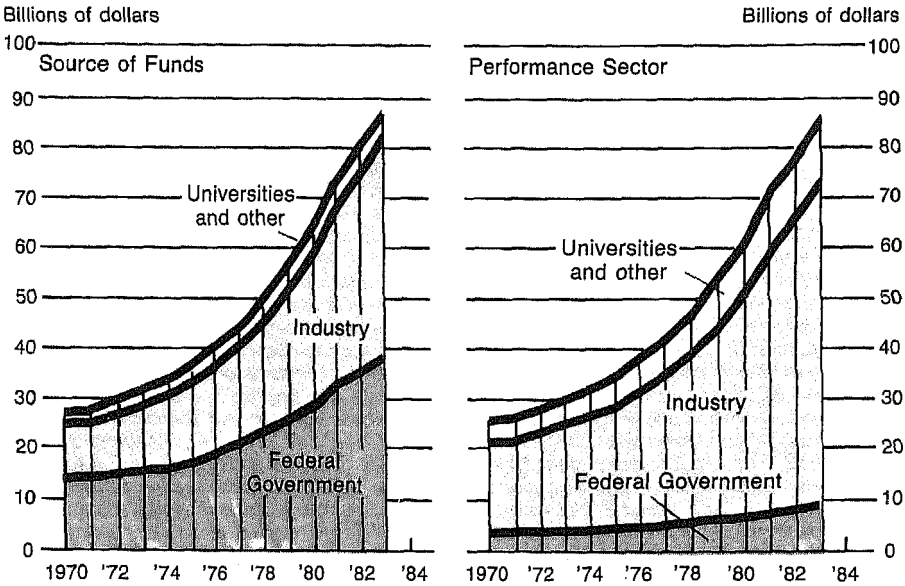
The National Science Board's biennial *Science Indicators* publication contains data and analyses of international and domestic science and technology, including measures of their outputs and impacts. *The Budget of the United States Government*, published by the U.S. Office of Management and Budget, contains summary financial data on Federal R&D programs.

Research and development outlays.—NSF defines research as a “systematic and intensive study directed toward a fuller knowledge of the subject studied” and development as “the systematic use of scientific knowledge directed toward the production of useful materials, devices, systems, methods, or processes.” National coverage of R&D expenditures is developed primarily from periodic surveys in four principal economic sectors: (1) *Government*, made up primarily of Federal executive agencies; (2) *industry*, consisting of manufacturing and nonmanufacturing firms and the federally funded research and development centers (FFRDC's) they administer; (3) *universities and colleges*, composed of universities, colleges, and their affiliated institutions, agricultural experiment stations, and associated schools of agriculture, and FFRDC's administered by educational institutions; and (4) *other nonprofit institutions*, consisting of such organizations as private philanthropic foundations, nonprofit research institutes, voluntary health agencies, and FFRDC's administered by nonprofit organizations. The R&D funds reported consist of current operating costs, including planning and administration costs, except as otherwise noted. They exclude funds for routine testing, mapping and surveying, collection of general-purpose data, dissemination of scientific information, and training of scientific personnel.

Scientists, engineers, and technicians.—Scientists and engineers are defined as persons engaged in scientific and engineering work at a level requiring a knowledge of sciences equivalent at least to that acquired through completion of a 4-year college course. Technicians are defined as persons engaged in technical work at a level requiring knowledge acquired through a technical institute, junior college, or other type of training less extensive than 4-year college training. Craftsmen and skilled workers are excluded.

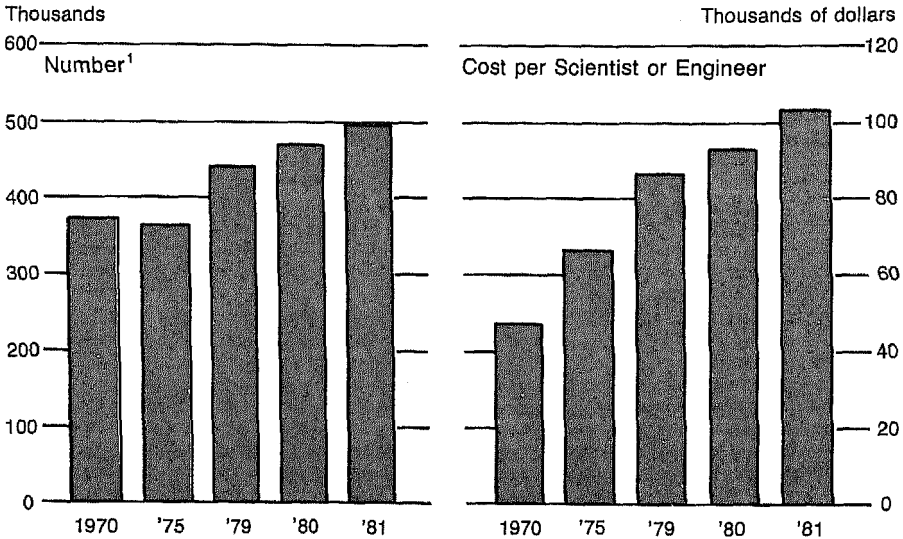
Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

Figure 21.1
Research and Development Funds: 1970 to 1983



Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 1015 and 1016.

Figure 21.2
Research and Development Scientists and Engineers in Private Industry: 1970 to 1981



¹ Average full-time equivalent employment.

Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1029.

NO. 1014. RESEARCH AND DEVELOPMENT (R&D)—OUTLAYS: 1955 TO 1983

[Includes basic research, applied research, and development. Defense-related outlays comprise all research and development spending by Dept. of Defense, including space activities, and a portion of Department of Energy funds. Space-related outlays are those of the National Aeronautics and Space Administration; they exclude space activities of other Federal agencies, estimated at less than 5 percent of all space research and development spending. Minus sign (-) denotes decrease]

YEAR OR PERIOD	CURRENT DOLLARS (bil. dol.)			CONSTANT (1972) DOLLARS		ANNUAL PERCENT CHANGE ³		PERCENT OF TOTAL R AND D OUTLAYS					
	Total ¹	De- fense space relat- ed ²	Other	Total (bil. dol.)	Per- cent of GNP ²	Cur- rent dol- ars	Con- stant dol- ars	Federally funded defense-space-related			Other outlays		
								Total	De- fense	Space	Total	Non- Fed- eral	Fed- eral
1955.....	6.2	3.0	3.1	10.1	1.5	9.4	7.2	49	48	1	51	43	8
1956.....	8.4	4.2	4.2	13.3	2.0	35.5	31.4	50	49	1	50	42	8
1957.....	9.8	5.3	4.5	15.0	2.2	16.9	13.0	54	53	1	47	38	9
1958.....	10.7	5.8	4.9	16.2	2.4	9.6	7.6	54	53	1	47	37	10
1959.....	12.4	7.0	5.3	18.3	2.5	15.4	12.8	57	54	3	43	35	8
1960.....	13.5	7.4	6.1	19.6	2.7	9.4	7.6	55	52	3	45	35	9
1961.....	14.3	8.0	6.3	20.6	2.7	5.9	4.8	56	50	6	44	35	9
1962.....	15.4	8.5	6.9	21.8	2.7	7.5	5.7	55	48	7	45	36	9
1963.....	17.1	9.4	7.7	23.7	2.9	10.8	9.1	55	41	14	45	34	11
1964.....	18.9	10.6	8.3	25.9	3.0	10.5	8.9	56	37	19	44	34	9
1965.....	20.0	10.8	9.2	26.9	2.9	6.3	4.0	54	33	21	46	35	11
1966.....	21.8	11.4	10.5	28.4	2.9	9.0	5.7	52	33	19	48	36	12
1967.....	23.1	11.3	11.8	29.2	2.9	6.0	2.8	49	35	14	51	38	13
1968.....	24.6	11.8	12.8	29.8	2.8	6.3	2.0	48	35	13	52	39	13
1969.....	25.6	11.5	14.1	29.6	2.7	4.2	- 8	45	34	11	55	42	13
1970.....	26.1	11.2	14.9	28.6	2.6	2.0	- 3.3	43	33	10	57	43	14
1971.....	26.7	10.9	15.7	27.8	2.5	2.1	- 2.8	41	32	9	59	44	15
1972.....	28.5	11.7	16.8	28.5	2.4	6.8	2.4	41	32	9	59	44	15
1973.....	30.7	11.7	19.0	29.1	2.3	7.9	2.4	38	30	8	62	47	15
1974.....	32.9	11.5	21.4	28.8	2.3	7.0	- 1.3	35	27	8	65	49	16
1975.....	35.2	12.0	23.2	28.2	2.3	7.1	- 2.1	34	26	8	66	49	17
1976.....	39.0	13.3	25.7	29.5	2.3	10.8	4.8	34	26	8	66	49	17
1977.....	42.8	14.1	28.7	30.5	2.2	9.8	3.5	33	26	7	67	49	18
1978.....	48.2	14.9	33.2	32.0	2.2	12.5	4.9	31	24	7	69	50	19
1979.....	55.0	16.5	38.5	33.6	2.3	14.1	5.0	30	23	7	70	51	19
1980.....	62.7	18.2	44.5	35.2	2.4	14.1	4.5	29	22	7	71	53	18
1981.....	72.1	22.4	49.8	36.9	2.5	15.0	5.0	31	24	7	69	53	16
1982.....	79.0	25.3	53.7	38.0	2.6	9.5	3.1	32	25	7	68	54	14
1983, est.....	86.5	29.4	57.1	39.6	2.7	9.5	4.1	34	27	7	66	54	12
Annual average:													
1960-1969.....	19.4	10.1	9.4	25.6	2.8	7.8	5.0	53	40	13	47	36	11
1970-1979.....	36.5	12.8	23.8	29.7	2.3	8.0	1.4	36	28	8	64	48	16
1980-1983.....	75.1	23.8	51.3	37.4	2.6	12.0	4.2	32	25	7	68	53	15

¹ Includes revisions not shown in detail. ² GNP=Gross national product. ³ Change from prior year shown; 1955 change from 1954.

Source: U.S. National Science Foundation, *National Patterns of Science and Technology Resources*, annual, and unpublished data.

NO. 1015. RESEARCH AND DEVELOPMENT (R&D)—SOURCE OF FUNDS AND PERFORMANCE SECTOR: 1960 TO 1983

[In millions of dollars. See headnote, table 1016]

YEAR	SOURCE OF FUNDS					PERFORMANCE SECTION				
	Total	Federal Govt.	Indus- try	Univ., col- leges	Other ¹	Federal Govt.	Indus- try	Univ., col- leges	Associat- ed FFRDC's ¹	Other ²
Current dollars:										
1960.....	13,523	8,738	4,516	149	120	1,726	10,509	646	360	282
1965.....	20,044	13,012	6,548	267	217	3,093	14,185	1,474	629	683
1970.....	28,134	14,892	10,444	461	337	4,079	18,067	2,335	737	916
1975.....	35,213	18,109	15,820	749	535	5,354	24,187	3,409	987	1,276
1980.....	62,734	29,716	30,771	1,314	933	7,769	44,505	6,050	2,235	2,175
1981.....	72,118	33,752	35,897	1,512	957	8,729	51,830	6,793	2,476	2,290
1982.....	79,000	36,610	39,955	1,540	895	9,250	57,850	7,010	2,540	2,350
1983, est.....	86,500	39,625	44,285	1,615	975	9,750	64,250	7,400	2,600	2,500
Constant (1972) dollars:										
1960.....	19,635	12,673	6,573	214	175	2,481	15,297	928	517	412
1965.....	26,896	17,443	8,806	356	291	4,124	19,077	1,955	838	892
1970.....	28,613	16,316	11,421	506	370	4,481	19,756	2,564	809	1,003
1975.....	32,153	14,537	12,579	608	429	4,344	19,229	2,766	801	1,013
1980.....	35,159	16,672	17,225	739	523	4,369	24,914	3,402	1,288	1,136
1981.....	36,900	17,274	18,361	774	491	4,470	26,511	3,480	1,268	1,171
1982.....	38,048	17,601	19,280	737	430	4,426	27,918	3,354	1,216	1,134
1983, est.....	39,605	18,119	20,305	736	445	4,442	29,461	3,371	1,185	1,146

¹ Federally-funded R & D Centers. ² Nonprofit institutions.

Source: U.S. National Science Foundation, *National Patterns of Science and Technology Resources*, annual.

NO. 1016. RESEARCH AND DEVELOPMENT (R & D) FUNDS, BY PERFORMANCE SECTOR AND SOURCE:
1965 TO 1983

(In millions of dollars, except percent. Data primarily on calendar year basis—calendar year data for industry and other nonprofit institutions combined with Federal and University fiscal year data. Data refer, in general, to natural sciences including engineering, and to social sciences in all but industry sector. Excludes capital expenditures data. Expenditures at associated federally funded research and development centers administered by industry and other nonprofit institutions included in totals of respective sectors. See also *Historical Statistics, Colonial Times to 1970*, series W 109-125)

PERFORMANCE SECTOR AND SOURCE OF FUNDS	1965	1970	1975	1977	1978	1979	1980	1981	1982, est.	1983, est.
Total R & D¹	20,044	26,134	35,213	42,829	48,184	54,972	62,734	72,118	79,000	86,500
In 1972 dollars	26,896	28,613	28,153	30,539	32,039	33,637	35,159	36,900	38,048	39,635
Percent Federal as source	64.9	57.0	51.4	50.5	49.7	48.9	47.4	46.8	46.3	45.8
Percent of gross national product	2.9	2.6	2.3	2.2	2.2	2.3	2.4	2.5	2.6	2.7
Federal Government	3,093	4,079	5,354	6,060	6,870	7,463	7,769	8,729	9,250	9,750
Industry	14,185	18,067	24,187	29,825	33,304	38,226	44,505	51,830	57,850	64,250
Federal funds	7,740	7,779	8,605	10,485	11,189	12,518	14,169	16,468	18,525	20,675
Industry funds	6,445	10,288	15,582	19,340	22,115	25,708	30,336	35,362	39,325	43,575
Universities and colleges	1,474	2,335	3,409	4,065	4,821	5,354	6,050	6,793	7,010	7,400
Federal funds	1,073	1,648	2,286	2,726	3,057	3,594	4,093	4,549	4,885	4,950
Industry funds	41	61	113	139	170	193	235	285	320	360
University and college funds ²	257	461	749	867	1,035	1,194	1,314	1,512	1,540	1,615
Other nonprofit institutions funds ³	93	165	259	313	359	373	408	447	455	475
Universities and colleges, associated federally funded R & D centers	629	737	987	1,384	1,717	1,935	2,235	2,476	2,540	2,600
Other nonprofit institutions	663	916	1,276	1,495	1,672	1,994	2,175	2,290	2,350	2,500
Federal funds	477	649	875	987	1,100	1,350	1,450	1,530	1,600	1,650
Industry funds	62	95	125	150	165	180	200	250	310	350
Other ³	124	172	276	358	407	464	525	510	440	500
Total research, basic and applied	6,894	9,289	12,471	15,280	17,332	19,622	22,127	26,054	27,930	30,175
In 1972 dollars	9,234	10,160	10,017	10,882	11,459	12,006	12,414	13,335	13,429	13,798
Percent Federal as source	62.9	60.1	56.8	56.3	56.1	55.6	55.1	52.5	51.6	50.7
Federal Government	1,354	1,904	2,464	2,958	3,221	3,481	3,666	4,034	4,200	4,500
Industry	3,250	4,029	5,300	6,547	7,335	8,383	9,775	12,353	13,700	15,080
Federal funds	1,224	1,207	1,287	1,535	1,680	1,820	2,240	2,681	2,925	3,175
Industry funds	2,026	2,822	4,013	5,012	5,655	6,563	7,535	9,672	10,775	11,905
Universities and colleges	1,417	2,223	3,261	3,865	4,385	5,070	5,707	6,416	6,820	6,995
Federal funds	1,036	1,564	2,210	2,614	2,935	3,434	3,885	4,324	4,465	4,710
Industry funds	39	56	106	125	155	177	215	259	290	330
University and college funds ²	252	448	702	829	957	1,109	1,224	1,411	1,435	1,505
Other nonprofit institutions funds ³	90	155	243	297	338	350	381	422	430	450
Universities and colleges, associated federally funded R & D centers	412	485	573	867	1,116	1,298	1,474	1,656	1,775	1,875
Other nonprofit institutions	461	628	873	1,043	1,175	1,390	1,505	1,595	1,635	1,725
Federal funds	307	409	545	635	720	880	930	990	1,035	1,050
Industry funds	50	77	103	123	135	145	160	200	250	285
Other ³	104	142	225	285	320	365	415	405	350	380
Total basic research	2,555	3,549	4,608	5,534	6,388	7,252	8,071	9,188	9,700	10,450
In 1972 dollars	3,416	3,895	3,720	3,937	4,248	4,436	4,533	4,704	4,853	4,771
Percent of total R & D	12.7	13.6	13.1	12.8	13.3	13.2	12.9	12.7	12.3	12.1
Percent Federal as source	70.8	70.1	68.1	69.0	69.6	69.5	68.7	67.7	67.6	67.2
Federal Government	364	577	734	914	1,029	1,089	1,182	1,302	1,425	1,600
Industry	592	602	730	911	1,035	1,158	1,325	1,641	1,825	2,030
Federal funds	186	158	157	210	250	285	290	328	375	425
Industry funds	406	444	573	701	785	893	1,035	1,313	1,450	1,605
Universities and colleges	1,138	1,796	2,410	2,797	3,172	3,607	4,020	4,559	4,700	4,970
Federal funds	879	1,296	1,694	2,005	2,262	2,571	2,850	3,239	3,345	3,520
Industry funds	26	40	72	79	99	113	135	164	185	215
University and college funds ²	164	350	478	526	603	707	800	905	915	965
Other nonprofit institutions funds ³	69	110	166	187	208	216	235	251	255	270
Universities and colleges, associated federally funded R & D centers	208	269	309	402	587	718	774	856	900	950
Other nonprofit institutions	253	305	425	510	585	680	770	830	850	900
Federal funds	172	189	245	290	335	400	450	495	515	525
Industry funds	29	44	60	70	80	85	95	120	150	175
Other ³	52	72	120	150	170	195	225	215	165	200
Total development	13,150	16,865	22,742	27,549	30,952	35,350	40,607	46,064	51,070	56,325
In 1972 dollars	17,662	18,453	18,136	19,657	20,580	21,631	22,745	23,565	24,619	25,807
Percent of total R & D	65.6	64.5	64.6	64.3	64.2	64.3	64.7	63.9	64.6	65.1
Percent Federal as source	66.0	55.3	48.5	47.3	46.1	45.1	43.1	43.6	43.5	43.2

¹ Basic research, applied research, and development. ² Includes State and local government funds received by these institutions and used for research and development. ³ Includes estimates for independent nonprofit hospitals and voluntary health agencies.

Source: U.S. National Science Foundation, *National Patterns of Science and Technology Resources*, annual.

**NO. 1017. FEDERAL FUNDING FOR RESEARCH AND DEVELOPMENT, BY BUDGET FUNCTION:
1973 TO 1983**

[In millions of dollars. For years ending June 30 except, beginning 1977 ending Sept. 30. Excludes R&D plant. Data for 1973-77 are shown in obligations, and for 1978-83 are shown in budget authority. See *Historical Statistics, Colonial Times to 1970*, series W 126, for total obligations]

FUNCTION	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983, est.
Total.....	16,800	17,410	19,039	20,780	23,983	26,516	29,041	31,623	35,547	36,115	38,455
National defense.....	9,002	9,016	9,679	10,430	11,864	12,899	13,791	14,946	18,413	22,070	24,313
Health.....	1,585	2,069	2,170	2,351	2,629	2,968	3,401	3,694	3,871	3,869	4,249
Energy.....	630	759	1,363	1,649	2,562	3,134	3,461	3,603	3,501	3,012	2,580
Space research and technology.....	2,824	2,702	2,764	3,130	3,365	3,481	3,969	4,587	4,924	2,584	1,883
General science.....	658	749	813	858	974	1,050	1,119	1,233	1,340	1,359	1,492
Natural resources and environment.....	554	516	624	683	753	904	1,010	999	1,061	965	927
Transportation.....	572	693	635	631	708	768	798	888	870	791	894
Agriculture.....	308	313	342	383	457	501	552	585	659	693	747
Education, training, employment, and social services.....	290	236	239	255	230	345	354	468	298	228	220
Veterans benefits and services.....	74	85	95	98	107	111	123	126	143	139	158
International affairs.....	28	24	29	42	66	57	117	127	160	165	152
Commerce and housing credit.....	50	51	65	69	71	77	93	102	106	104	107
Community and regional develop- ment.....	78	82	93	109	101	92	127	119	104	63	48
Income security.....	106	71	72	48	55	67	57	77	43	32	42
Administration of justice.....	33	35	44	35	30	44	47	45	34	31	33
General government.....	7	9	12	12	13	20	23	22	22	10	10

Source: U.S. National Science Foundation, *Federal R&D Funding by Budget Function*, annual.

NO. 1018. FEDERAL OBLIGATIONS FOR RESEARCH, BY FIELD OF SCIENCE: 1973 TO 1983

[In millions of dollars. For years ending June 30 except, beginning 1977, ending Sept. 30. See headnote table 1017]

ITEM	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983, est.
Research, total.....	5,581	6,175	6,730	7,619	8,514	9,607	10,535	11,597	12,213	12,595	13,265
Basic.....	2,241	2,398	2,600	2,779	3,269	3,711	4,206	4,688	5,041	5,311	5,765
Applied.....	3,340	3,777	4,129	4,841	5,245	5,896	6,329	6,909	7,172	7,284	7,500
Life sciences.....	1,931	2,265	2,455	2,650	3,008	3,427	3,848	4,192	4,436	4,593	4,735
Engineering.....	1,371	1,564	1,718	2,069	2,113	2,405	2,572	2,830	3,071	3,137	3,172
Physical sciences.....	982	1,016	1,087	1,259	1,530	1,646	1,793	2,001	2,221	2,510	2,846
Environmental sciences.....	581	636	727	769	906	1,025	1,101	1,261	1,121	1,093	1,098
Social sciences.....	299	292	302	392	426	489	527	524	497	406	398
Mathematics and computer sciences.....	115	114	125	158	196	216	210	241	279	311	357
Psychology.....	110	133	139	144	158	193	197	199	209	215	258
Other sciences.....	194	154	167	179	179	206	287	350	379	331	401

Source: U.S. National Science Foundation, *Federal Funds for Research and Development*, annual.

NO. 1019. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: 1973 TO 1983

[In millions of dollars except percent. For years ending June 30 except, beginning 1977, ending Sept. 30. Excludes R&D Plant. See *Historical Statistics, Colonial Times to 1970*, series W 142, for total R & D expenditures]

AGENCY	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983, est.
Total.....	16,800	17,410	19,039	20,780	23,983	26,368	28,978	31,680	34,917	36,954	42,974
Departments:											
Agriculture.....	367	379	420	462	547	621	663	688	774	807	839
Commerce.....	191	181	215	229	245	284	309	343	5,246	4,864	4,179
Defense.....	8,404	8,420	9,012	9,655	10,983	11,554	12,506	13,981	18,509	20,602	24,520
Percent of total.....	50.0	48.4	47.3	46.5	45.7	43.8	43.2	44.1	47.3	52.9	57.1
Energy ¹	1,363	1,489	2,047	2,464	3,536	4,245	4,639	4,754	(²)	(²)	(²)
HHS ³	1,836	2,290	2,397	2,584	2,823	3,207	3,505	3,780	3,927	3,966	4,118
Interior.....	244	192	303	333	315	359	406	411	427	403	365
Transportation.....	311	370	312	295	355	408	370	361	416	328	367
Agencies:											
EPA ⁴	181	169	258	259	295	385	410	345	326	317	230
NASA ⁵	3,061	3,002	3,084	3,447	3,703	3,875	4,411	5,084	5,407	5,841	6,513
NSF ⁶	480	556	595	609	697	749	808	882	962	960	1,025
Other depts. and agencies.....	362	361	416	443	505	701	951	1,052	923	864	818

¹ Prior to 1974, Atomic Energy Commission; 1974-1976 Energy Research and Development Administration. ² The 1983 budget proposed that the Department of Energy be replaced by the Energy Research and Technology Administration within the Department of Commerce. ³ Health and Human Services beginning 1979; prior to then, Health, Education, and Welfare.

⁴ Environmental Protection Agency. ⁵ National Aeronautics and Space Administration. ⁶ National Science Foundation.

Source: U.S. National Science Foundation, *Federal Funds for Research and Development*, annual.

NO. 1020. FUNDS FOR PERFORMANCE OF INDUSTRIAL RESEARCH AND DEVELOPMENT (R&D), BY INDUSTRY, 1970 TO 1981

[In millions of dollars. Covers basic research, applied research, and development. See also *Historical Statistics, Colonial Times to 1970*, series W 144-160]

INDUSTRY	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total ¹	18,067	19,552	21,249	22,887	24,187	26,997	29,825	33,304	38,226	44,505	51,830
Aircraft and missiles	5,219	4,850	5,052	5,278	5,713	6,339	7,033	7,536	8,041	9,198	11,702
Electrical equip. and communication	4,220	4,680	4,902	5,011	5,105	5,636	5,886	6,507	7,824	9,175	10,486
Machinery	1,729	2,158	2,549	2,885	3,196	3,487	3,880	4,283	4,825	5,901	6,800
Chemicals and allied products	1,773	1,932	2,116	2,450	2,727	3,017	3,202	3,580	4,038	4,636	5,325
Motor vehicles, transport equip.	1,581	2,010	2,477	2,476	2,430	2,872	3,478	4,010	4,668	5,117	5,090
Professional and scientific instruments	744	838	961	1,075	1,173	1,331	1,571	1,998	2,505	3,029	3,685
Petroleum refining and extraction	515	468	498	622	693	767	918	1,060	1,262	1,552	(NA)
Primary metals	275	277	307	358	443	506	538	560	634	728	889
Rubber products	276	377	426	469	467	502	491	493	577	656	(NA)
Fabricated metal products	207	253	291	313	324	358	386	384	455	550	538
Food and kindred products	230	259	289	298	335	355	415	472	528	620	719
Paper and allied products	178	189	194	237	249	313	333	387	445	495	(NA)
Stone, clay, and glass products	167	183	199	217	233	263	287	324	356	406	(NA)

NA Not available. ¹ Includes industries not available separately. ² Estimated.

Source: U.S. National Science Foundation, *Research and Development in Industry*, annual.

NO. 1021. COMPANIES PERFORMING RESEARCH AND DEVELOPMENT (R&D)—SELECTED DATA, BY INDUSTRY GROUP: 1975 TO 1981

Industry code ¹	INDUSTRY GROUP	R AND D FUNDS (mil. dol.)			R AND D FUNDS AS PERCENT OF NET SALES			R AND D SCIENTISTS/ENGINEERS ² (1,000)		
		1975	1980	1981	1975	1980	1981	1975	1980	1981
(x)	Total ⁴	24,187	44,505	51,830	3.1	2.8	2.9	363.3	460.0	487.8
20	Food and kindred products	335	620	719	.4	.4	.4	6.8	7.2	7.4
26	Paper and allied products	249	495	(NA)	.9	1.0	1.1	5.0	7.4	8.0
28	Chemicals and allied products	2,727	4,636	5,326	3.7	3.8	3.8	45.2	51.4	54.7
29	Petroleum refining and extraction	693	1,552	(NA)	.7	.8	.7	8.4	10.8	13.0
30	Rubber products	467	656	(NA)	2.5	2.3	2.5	8.4	(NA)	(NA)
32	Stone, clay, and glass products	233	406	(NA)	1.2	1.4	1.6	4.5	5.4	5.6
33	Primary metals	443	728	889	.8	.7	.9	6.3	8.1	7.9
34	Fabricated metal products and ordnance	324	550	638	1.2	1.4	1.5	7.4	7.8	7.8
35	Machinery	3,196	5,901	6,800	4.8	6.1	5.2	52.8	62.1	69.2
36	Electrical equipment and communication	5,105	9,175	10,466	6.5	6.6	6.8	82.0	94.5	106.9
37	Transportation	8,143	14,315	16,792	6.8	7.3	7.7	95.4	125.6	131.7
	Motor vehicles and other transportation equipment	2,430	5,117	5,080	3.3	3.9	3.6	27.9	39.7	36.5
	Aircraft and missiles	5,713	9,198	11,702	12.7	13.7	15.3	67.5	85.9	95.2
38	Professional and scientific instruments	1,173	3,029	3,685	5.9	7.6	8.3	17.9	32.8	34.7

NA Not available. ¹ Standard Industrial Classification Code; see text, p. 761. ² Excludes nonmanufacturing industries.

³ As of January. ⁴ Includes breakdown not shown separately. ⁵ Estimated.

Source: U.S. National Science Foundation, *Research and Development in Industry*, annual.

NO. 1022. FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES: 1970 TO 1981

[In millions of dollars, except percent. For years ending June 30 except, beginning 1977, ending Sept. 30. Minus sign (—) indicates decrease]

ITEM	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total Federal obligations	3,237	4,145	3,839	4,480	4,547	5,403	6,490	7,472	7,604	8,296	7,719
Annual percent change ¹	—6.5	18.5	—7.4	16.7	1.5	18.8	20.1	15.1	1.8	9.1	—7.0
Academic science/engineering obligations	2,188	2,599	2,464	2,737	2,806	2,960	3,351	3,960	4,473	4,801	5,087
Percent of total	67.6	62.7	64.2	61.1	61.7	54.8	51.6	53.0	58.8	57.9	65.9
Research and development	1,447	1,853	1,871	2,085	2,246	2,431	2,803	3,386	3,874	4,158	4,409
Research and development plant	45	37	43	29	45	24	30	34	32	38	44
Other science/engineering activities	696	709	550	623	515	505	512	539	567	605	634
Nonscience engineering activities	1,049	1,546	1,375	1,743	1,741	2,443	3,138	3,512	3,131	3,495	2,632

¹ For 1970, change from 1969, for 1972, change from 1971.

Source: U.S. National Science Foundation, *Survey of Federal Support to Universities, Colleges, and Selected Nonprofit Institutions*, annual.

**NO. 1023. NOBEL PRIZE LAUREATES IN CHEMISTRY, PHYSICS, AND PHYSIOLOGY/MEDICINE—
SELECTED COUNTRIES: 1901 TO 1982**

[Presented by location of award-winning research and by date of award]

COUNTRY	1901–1982				1901–1915	1916–1930	1931–1945	1946–1960	1961–1975	1976–1982
	Total	Phys-ics	Chem-istry	Physi-ology/Medi-cine						
Total	355	121	99	135	52	41	49	74	92	47
United States.....	131	48	25	58	3	3	14	38	42	31
United Kingdom.....	66	21	24	21	7	9	11	14	20	6
Germany, Fed. Rep. of ¹	51	14	25	12	15	12	11	4	8	1
France.....	21	8	6	7	10	3	2	—	5	1
Soviet Union.....	10	7	1	2	2	—	—	4	3	1
Other countries.....	76	23	18	35	15	15	11	14	14	7

— Represents zero. ¹ Includes East Germany before 1946.

Source: U.S. National Science Foundation, unpublished data.

**NO. 1024. NATIONAL RESEARCH AND DEVELOPMENT EXPENDITURES AS A PERCENT OF GROSS
NATIONAL PRODUCT, BY COUNTRY: 1965 TO 1982**

YEAR	United States	France	Germany, Fed. Rep.	Japan	United Kingdom	Soviet Union	YEAR	United States	France	Germany, Fed. Rep.	Japan	United Kingdom	Soviet Union
1965.....	2.90	2.01	1.73	1.52	(NA)	2.85	1974.....	2.29	1.79	2.26	1.97	(NA)	3.64
1966.....	2.89	2.06	1.81	1.46	2.31	2.88	1975.....	2.27	1.80	2.38	1.96	2.05	3.69
1967.....	2.89	2.13	1.97	1.52	2.29	2.91	1976.....	2.27	1.77	2.29	1.95	(NA)	3.55
1968.....	2.82	2.08	1.97	1.60	2.25	(NA)	1977.....	2.23	1.76	2.31	1.93	(NA)	3.46
1969.....	2.72	1.94	2.05	1.64	2.22	3.03	1978.....	2.23	1.76	2.31	1.98	2.13	3.47
1970.....	2.63	1.91	2.18	1.81	(NA)	3.23	1979.....	2.28	1.81	2.59	2.06	(NA)	3.44
1971.....	2.47	1.90	2.36	1.85	(NA)	3.29	1980.....	2.39	1.85	2.65	2.18	(NA)	3.51
1972.....	2.40	1.86	2.33	1.86	2.05	3.58	1981.....	2.47	1.97	2.68	2.36	(NA)	3.53
1973.....	2.31	1.76	2.22	1.90	(NA)	3.66	1982.....	2.50	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

Source: U.S. National Science Foundation, *Science Indicators*, 1981; and unpublished data.

**NO. 1025. RESEARCH AND DEVELOPMENT (R&D) EXPENDITURES IN SCIENCE AND ENGINEERING AT
UNIVERSITIES AND COLLEGES: 1970 TO 1981**

[In millions of dollars. Estimates for nonrespondents account for less than 7 percent of the total]

CHARACTERISTIC	1970	1975	1980	1981	CHARACTERISTIC	1970	1975	1980	1981
Total	2,335	3,409	6,050	6,793	Field:				
In 1972 dollars ¹	2,566	2,769	3,403	3,478	Life sciences.....	1,194	1,901	3,213	3,663
Basic research.....	1,796	2,410	4,019	4,559	Engineering.....	319	381	883	957
Applied research and develop.....	539	999	2,031	2,234	Physical sciences.....	307	350	677	764
Source of funds:					Environmental sciences.....	125	255	506	547
All Governments.....	1,867	2,620	4,586	5,087	Social sciences and other.....	258	356	488	513
Institutions' own funds.....	243	417	821	974	Mathematics and computer sciences.....	72	85	192	221
Industry.....	61	113	235	285	Psychology.....	59	80	111	128
Other.....	165	259	408	447					

¹ Based on GNP implicit price deflator, see text, p. 445.

Source: U.S. National Science Foundation, *Survey of Scientific and Engineering Expenditures at Universities and Colleges*, annual.

NO. 1026. SCIENTISTS AND ENGINEERS EMPLOYED IN RESEARCH AND DEVELOPMENT: 1961 TO 1983

[In thousands of full-time equivalent employees. Yearly averages for industry sector only. Excludes those employed by State and local government agencies, except as noted. DOD=Dept. of Defense. FFRDC's=federally funded R&D centers]

SECTOR	1961	1965	1970	1975	1977	1978	1979	1980	1981	1982	1983 ¹
Total	425.7	494.5	546.6	532.7	568.2	594.2	626.8	663.4	691.4	716.9	743.0
Industry (excl. social scientists) ²	312.0	348.4	375.6	363.8	393.6	414.2	442.0	473.9	499.7	524.0	549.0
Universities and colleges, total.....	42.4	53.4	68.5	69.8	74.4	76.6	78.6	81.2	83.3	85.0	86.1
Scientists and engineers.....	33.6	40.4	50.3	51.2	54.4	56.0	56.9	57.9	58.9	60.0	60.6
Graduate students.....	8.8	13.0	18.2	18.6	20.0	20.6	21.7	23.3	24.4	25.0	25.5
Federal Government (incl. DOD).....	51.1	61.8	69.8	63.4	62.2	64.3	64.6	65.6	66.0	66.0	66.0
University-associated FFRDC's.....	9.1	11.1	11.5	12.7	14.0	14.1	14.1	15.2	15.4	15.4	15.3
Other nonprofit institutions ^{2,3}	11.1	19.9	21.2	23.0	24.0	25.0	27.5	27.5	27.0	26.5	26.6

¹ Estimated.

² Includes professional R&D personnel employed at FFRDC's administered by industry and other nonprofit institutions. ³ Includes estimate for R&D scientists and engineers employed in State-affiliated institutions.

Source: U.S. National Science Foundation, *National Patterns of Science and Technology Resources*, annual.

NO. 1027. SCIENTISTS AND ENGINEERS, BY FIELD, EMPLOYMENT STATUS, AND SEX: 1978 TO 1981

[In thousands, except percent. Represents the total science and engineering population in the United States]

FIELD	1978			1980			1981			Out- side labor force ¹
	Total		In labor force	Total		In labor force	Total		In labor force	
	Num- ber	Per- cent fe- male		Num- ber	Per- cent fe- male		Num- ber	Per- cent fe- male		
Total, all fields.....	2,741	9.7	2,508	3,150	11.7	2,941	3,381	13.8	3,167	214
Engineers, total.....	1,396	1.6	1,285	1,524	2.3	1,425	1,593	2.3	1,493	100
Scientists, total.....	1,345	18.2	1,223	1,625	23.1	1,517	1,788	22.1	1,675	114
Life scientists.....	328	22.0	296	407	22.3	384	440	23.7	415	25
Physical scientists.....	255	8.9	217	265	13.7	227	272	13.8	233	39
Computer scientists.....	238	18.0	235	357	26.6	350	430	26.9	423	8
Social scientists.....	205	20.6	189	231	26.8	215	247	27.2	230	17
Psychologists.....	132	27.3	123	134	39.6	126	142	41.6	133	9
Mathematical scientists.....	108	18.4	90	127	20.3	120	142	22.1	134	8
Environmental scientists.....	81	10.6	74	104	12.1	95	116	14.2	107	9

¹ Includes those not employed or not seeking employment, such as retirees.Source: National Science Foundation, *U.S. Scientists and Engineers*, and unpublished data.

NO. 1028. CHARACTERISTICS OF SCIENTISTS AND ENGINEERS: 1981

[Percent distribution, except as indicated. Represents the total science and engineering population in the United States]

CHARACTERISTIC	Total	Engi- neers	Physi- cal sci- entists	Math- ematical	Com- puter specialists	Environ- mental scientists	Life scien- tists	Psych- ologists	Social scien- tists
Total (1,000).....	3,381	1,593	272	142	430	116	440	142	247
Male.....	86.2	97.7	97.6	77.9	73.1	85.7	76.3	58.4	72.7
Female.....	13.8	2.3	2.4	22.1	26.9	14.3	23.7	41.6	27.3
Highest degree:									
Doctorate.....	10.8	3.7	25.3	11.7	2.1	14.3	21.3	32.0	22.9
Master's.....	24.4	20.9	17.0	46.5	24.5	26.2	23.9	31.2	37.8
Bachelor's.....	63.2	72.7	57.6	41.2	73.4	58.7	53.2	36.1	38.9
Other.....	1.6	2.7	.1	.6	(8)	.8	1.6	.7	.4
Type of employer:									
Business, industry.....	59.3	77.3	53.2	35.7	75.2	50.3	28.4	15.5	23.7
Educational institutions.....	17.5	4.8	25.4	43.4	10.1	18.6	40.3	39.9	35.9
Nonprofit organizations.....	4.4	1.5	5.4	3.5	2.4	1.3	7.6	31.4	9.7
Federal Government.....	8.6	7.2	8.5	10.9	5.8	15.6	13.6	2.2	12.5
Military.....	1.4	1.7	1.6	1.3	1.7	3.0	.4	.8	.4
Other government.....	7.0	6.0	4.7	4.3	4.2	10.4	8.6	9.7	16.9
Other.....	1.8	1.5	1.2	.9	.6	.8	1.1	.5	.6

B Base figure too small to meet statistical standards for reliability of derived figure.

Source: U.S. National Science Foundation, *U.S. Scientists and Engineers*, and unpublished data.

NO. 1029. RESEARCH AND DEVELOPMENT SCIENTISTS AND ENGINEERS—AVERAGE FULL-TIME-EQUIVALENT EMPLOYMENT AND COST, BY INDUSTRY: 1970 TO 1981

[Data are estimates; for 1970 on man-years basis; thereafter, on average full-time-equivalent (FTE) basis. See *Historical Statistics, Colonial Times to 1970*, series W 167, for total cost per scientist or engineer]

INDUSTRY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Average FTE of scientists and engineers (1,000).....	375.6	358.6	354.0	358.9	361.7	363.8	373.6	393.6	414.2	442.0	473.9	499.7
Chemicals ¹	41.4	41.9	41.0	41.4	43.5	44.8	45.4	47.4	49.2	50.7	53.1	57.4
Machinery.....	42.5	43.2	45.0	48.7	51.9	54.3	55.5	56.6	59.0	61.2	65.7	71.2
Electrical equipment ²	96.2	87.7	84.5	84.0	82.8	81.5	82.2	84.3	84.7	83.8	100.7	110.0
Motor vehicles ³	26.9	29.0	29.8	29.6	28.6	27.5	28.6	32.0	35.5	38.5	38.1	36.3
Aircraft and missiles.....	85.2	74.5	71.5	71.4	69.1	67.2	69.5	77.0	84.3	86.2	90.6	95.3
Other industries.....	83.4	82.3	82.2	83.8	86.0	86.5	92.4	96.3	101.5	115.6	125.7	129.5
Cost per scientist or engineer (\$1,000).....	48.1	51.1	55.3	59.2	63.3	66.5	72.2	76.1	79.9	86.8	93.9	103.7
Chemicals ¹	42.8	43.7	47.1	51.1	56.3	60.9	66.5	68.4	71.7	78.1	84.8	92.7
Machinery.....	40.7	43.1	48.0	52.4	57.5	58.9	62.8	68.5	71.2	76.2	85.2	95.5
Electrical equipment ²	45.9	50.1	55.4	58.4	60.7	62.7	68.6	71.3	79.4	91.7	97.8	95.2
Motor vehicles ³	59.6	61.0	67.4	83.7	86.6	88.4	100.4	108.7	113.0	121.2	134.3	*140.2
Aircraft and missiles.....	61.3	65.5	69.2	70.8	76.4	85.1	91.3	90.5	87.6	90.0	96.7	122.9
Other industries.....	42.4	43.6	46.5	49.6	54.5	56.7	61.1	65.9	72.8	76.4	83.4	96.1

¹ Includes allied products. ² Includes communication. ³ And other transportation equipment. ⁴ Estimated.Source: U.S. National Science Foundation, *Research and Development in Industry*, annual.

NO. 1030. CIVILIAN EMPLOYMENT OF SCIENTISTS, ENGINEERS, AND TECHNICIANS IN PRIVATE INDUSTRY, BY OCCUPATION AND MAJOR INDUSTRIAL SECTOR: 1982

[In thousands. Covers wage and salary workers]

OCCUPATION	Total	Min- ing ¹	Con- struction	Manufac- turing	Trans- portation	Com- muni- cations	Pub- lic utili- ties	Trade	Fi- nance, insur- ance, real estate	Services
Scientists and engineers	1,560.4	71.9	48.6	749.4	12.0	45.6	39.7	76.1	55.8	461.3
Scientists.....	544.7	35.4	1.5	161.3	4.3	4.5	7.2	30.6	50.3	249.6
Physical scientists.....	168.3	28.1	.2	69.9	.4	(2)	1.0	2.7	.4	43.6
Life scientists.....	35.4	(2)	.2	10.0	(2)	(2)	(2)	1.0	(2)	24.2
Mathematical scientists.....	16.1	.8	(2)	8.2	(2)	(2)	(2)	.3	.8	6.0
Social scientists.....	61.6	1.3	.2	2.2	.7	.2	2.4	.4	17.8	36.4
Psychologists.....	54.8	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	54.8
Systems analysts, EDP.....	210.5	5.2	.9	51.0	3.2	4.3	3.8	26.2	31.3	84.6
Engineers²	1,015.7	36.5	47.1	588.1	7.7	41.1	32.5	45.5	5.5	211.7
Civil engineers.....	87.0	1.2	16.0	8.9	1.7	.9	2.5	1.8	.7	53.3
Electrical/electronics eng.....	286.2	3.7	6.0	162.7	1.0	29.4	16.0	11.9	.3	55.2
Mechanical engineers.....	192.1	1.9	9.4	118.8	2.2	1.9	5.6	9.6	.4	52.3
Technicians, except health²	1,303.6	33.5	39.3	501.3	63.2	52.4	41.5	112.8	14.3	445.3
Drafters.....	285.0	7.2	18.8	112.2	.7	5.7	13.1	5.6	2.1	119.6
Electrical/electronic technicians.....	353.3	2.7	10.1	137.7	3.9	36.7	11.7	91.9	(2)	58.6
Surveyors.....	29.2	2.8	3.5	1.1	.6	.5	1.4	(2)	.2	19.1
Computer programmers.....	241.7	3.4	1.4	73.1	3.3	4.5	3.7	18.9	39.9	93.5

Z Fewer than 50. ¹ Includes oil and gas extraction. ² Includes engineers and technicians not shown separately.
Source: U.S. Bureau of Labor Statistics, unpublished data.

NO. 1031. SCIENTISTS AND ENGINEERS—EMPLOYMENT IN INSTITUTIONS OF HIGHER EDUCATION, BY FIELD: 1975 TO 1982

[In thousands. As of January. Includes full-time and part-time personnel. Excludes graduate students who receive stipends for part-time services as scientists or engineers. R and D=research and development]

FIELD	1975	1980	1981	1982	FIELD	1975	1980	1981	1982
Total	291.4	339.2	349.6	364.0	Math. and computer scientists	28.5	36.0	39.0	42.1
Universities, colleges.....	278.9	324.1	334.3	348.8	Life scientists.....	113.5	133.7	137.8	146.2
Teaching staff.....	215.0	(NA)	(NA)	(NA)	Agricultural.....	14.3	15.9	16.1	16.5
Engineers ¹	27.9	33.7	34.8	36.4	Biological.....	38.2	44.8	46.3	46.8
Civil.....	4.9	5.5	5.7	6.1	Medical.....	61.0	67.1	68.6	73.5
Electrical.....	6.8	8.2	8.6	9.0	Psychologists.....	21.6	23.3	23.4	23.7
Mechanical.....	5.3	6.1	6.3	6.7	Social scientists.....	48.7	54.1	55.2	55.9
Physical and environmental science ¹	38.7	43.4	44.1	44.5	Federally funded R & D centers	12.5	15.1	15.3	15.2
Chemists.....	16.1	17.6	18.1	18.2	Engineers.....	5.9	6.5	6.6	6.6
Earth scientists.....	8.0	6.6	6.6	6.7	Scientists.....	6.6	8.6	8.7	8.6
Physicists.....	12.3	13.0	12.9	13.0					

NA Not available. ¹ Includes other breakdown not shown separately.

Source: U.S. National Science Foundation, *Academic Science Scientists and Engineers*, annual.

NO. 1032. PROFESSIONAL SCIENTIFIC, ENGINEERING, AND TECHNICAL PERSONNEL IN THE FEDERAL GOVERNMENT, BY OCCUPATIONAL GROUP: 1970 TO 1980

[In thousands, except percent. As of October]

OCCUPATIONAL GROUP	1970	1975	1977	1978	1979	1980	PERCENT FEMALE					
							1970	1975	1977	1978	1979	1980
Total	180.3	188.9	195.4	200.6	203.6	206.9	6.7	6.5	7.1	7.7	8.3	9.5
Scientific personnel.....	77.2	77.3	81.4	84.8	85.6	88.0	8.0	8.8	9.8	10.7	11.5	12.7
Physical sciences.....	29.8	27.1	27.1	27.5	27.6	27.6	6.4	6.6	7.3	7.9	8.4	9.5
Mathematics and statistics.....	8.6	10.0	10.6	11.2	10.9	11.1	17.4	15.9	16.7	17.6	18.7	19.8
Life sciences.....	26.9	26.4	28.3	29.3	29.5	30.5	4.1	5.1	6.1	6.6	7.5	8.7
Social sciences.....	6.6	8.0	9.1	10.1	10.3	10.5	16.2	17.6	19.4	21.3	22.2	23.3
Geography and cartography.....	3.3	2.9	3.3	3.6	4.1	4.9	8.5	7.9	9.2	9.8	11.9	14.8
Psychology.....	2.2	2.9	3.0	3.2	3.2	3.3	13.7	14.6	15.1	16.0	16.7	16.8
Engineering personnel.....	83.0	86.6	87.8	89.2	88.8	89.6	.5	.7	.9	1.1	1.3	1.9
Computer specialists.....	20.1	25.0	26.1	26.6	29.3	29.3	21.1	19.1	19.5	20.2	20.1	23.3

¹ Excludes health professional personnel. ² Includes community planning.

Source: U.S. National Science Foundation. Compiled from data supplied by the U.S. Office of Personnel Management.

NO. 1033. GRADUATE SCIENCE AND ENGINEERING STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS, BY FIELD, ENROLLMENT STATUS, AND LEVEL OF STUDY: 1975 TO 1981

[In thousands. As of fall. Includes outlying areas]

FIELD OF SCIENCE	STUDENTS ENROLLED FULL TIME									STUDENTS ENROLLED PART TIME		
	Total			First year			Beyond first year					
	1975	1980	1981	1975	1980	1981	1975	1980	1981	1975	1980	1981
Total	210.3	230.7	234.5	79.2	77.4	76.6	131.2	153.3	157.9	83.4	103.2	105.7
Engineering	37.2	42.5	45.4	16.5	16.0	16.6	20.7	26.5	26.8	27.5	29.8	31.6
Physical sciences	21.3	22.3	22.6	6.0	5.7	5.8	15.3	16.5	16.8	3.2	3.1	3.2
Environmental sciences	8.9	9.9	10.2	3.2	3.2	3.1	5.7	6.7	7.1	1.9	2.3	2.4
Mathematical/computer sciences	14.1	15.3	16.1	5.4	5.5	5.7	8.7	9.7	10.4	7.2	9.7	10.9
Life sciences	59.6	67.8	67.5	23.3	23.0	21.9	36.3	44.8	45.7	14.0	23.0	23.7
Psychology	19.7	21.6	21.5	5.7	5.7	5.6	14.0	15.9	15.9	7.2	7.8	7.5
Social sciences	49.5	51.3	51.2	19.0	18.3	17.9	30.5	33.1	33.2	22.3	27.4	26.4

Source: U.S. National Science Foundation, *Survey of Graduate Science and Engineering Students and Postdoctorates*, annual.

NO. 1034. DEGREES CONFERRED, BY RECIPIENTS' CHARACTERISTICS, 1970 TO 1982, AND BY SELECTED FIELDS, 1982

CHARACTERISTIC	ALL FIELDS						1982					
	1970	1975	1979	1980	1981	Total ¹	Physical sciences ²	Mathematics and computer sciences	Engineering	Biological sciences ^{3,4}	Psychology	Social sciences ^{4,5}
Doctorate conferred.....	29,475	32,913	31,200	30,982	31,319	31,048	3,348	940	2,644	3,502	3,154	2,368
Percent with master's degree	78.6	81.3	81.2	80.9	80.6	80.0	53.6	77.9	88.8	51.8	79.3	81.7
Percent distribution	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Male	86.5	78.1	71.4	69.7	68.5	67.6	86.3	87.7	95.3	70.5	54.5	74.4
Female.....	13.5	21.9	28.6	30.3	31.5	32.4	13.7	12.3	4.7	29.5	45.5	25.6
White ⁶	(NA)	79.8	83.3	84.6	85.3	86.4	88.8	87.5	75.2	89.2	90.2	84.2
Black and other ⁶	(NA)	12.1	10.9	10.5	10.6	11.1	8.3	9.2	20.8	7.6	8.1	12.7
Not reported ⁶	(NA)	8.1	5.8	4.9	4.1	2.5	2.9	3.4	4.0	3.2	1.7	3.1
U.S. citizens	84.2	82.1	81.3	81.0	79.8	78.3	75.0	63.9	44.1	84.9	90.9	71.8
Foreign citizens	14.0	15.9	15.7	15.9	16.6	17.4	21.9	32.2	50.1	11.9	3.6	22.1
Citizenship unknown	1.6	2.0	3.0	3.1	3.6	4.3	3.1	3.7	5.9	3.2	5.5	6.1
Median age at award ⁷ (yr.).....	30.7	31.5	31.9	32.2	32.4	32.5	29.2	29.5	30.7	29.7	31.5	32.9
Median total time, ⁷ baccalaureate to doctorate (yr.)	7.9	8.6	9.0	9.3	9.4	9.5	6.8	7.2	8.0	7.2	8.8	9.7
Registered time (yr.)	5.6	5.9	6.2	6.3	6.4	6.5	5.8	6.0	5.8	6.1	6.5	7.1
Master's conferred (1,000)	209	294	302	299	297	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Bachelor's conferred ⁸ (1,000)	833	988	1,001	1,011	1,019	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. ¹ Includes other fields, not shown separately. ² Astronomy, physics, chemistry, and earth sciences.

³ Biochemistry, botany, microbiology, physiology, zoology, and related fields.

⁴ Data not strictly comparable to those shown in table 1035; see source for details. ⁵ Anthropology, sociology, economics, political science, public administration, and international relations.

⁶ 1979-1982 data on race limited to U.S. citizens and non-U.S. citizens with permanent visas.

⁷ For definition of median, see Guide to Tabular Presentation. ⁸ Includes first professional degrees.

Source: U.S. National Science Foundation. Data from National Research Council, *Summary Report, 1982: Doctorate Recipients from United States Universities*.

NO. 1035. SCIENCE DOCTORATES CONFERRED: 1965 TO 1982

[Doctorates conferred, years ending June 30; enrollment as of fall term. See also *Historical Statistics, Colonial Times to 1970*, series H 767-771, 774, and 776-780]

FIELD OF SCIENCE	1965	1970	1975	1976	1977	1978	1979	1980	1981	1982
Science doctorates conferred	10,477	17,731	18,352	17,872	17,373	17,034	17,230	17,195	17,623	17,614
Life sciences	2,539	4,183	4,402	4,350	4,266	4,361	4,495	4,710	4,783	4,840
Biological sciences	1,963	3,360	3,498	3,562	3,484	3,508	3,640	3,798	3,801	3,889
Agricultural sciences ¹	576	803	904	788	782	853	855	912	982	951
Physical sciences	2,865	4,400	3,749	3,572	3,410	3,234	3,321	3,151	3,208	3,348
Chemistry	1,444	2,234	1,762	1,620	1,570	1,545	1,567	1,538	1,611	1,678
Physics and astronomy	1,046	1,655	1,293	1,235	1,149	1,066	1,108	985	1,015	1,013
Earth, environmental, and marine sciences	375	511	694	714	691	623	646	628	582	657
Psychology	954	1,888	2,749	2,878	2,980	3,049	3,081	3,098	3,357	3,154
Social sciences	1,361	2,626	3,344	3,276	3,137	3,008	2,862	2,794	2,787	2,688
Engineering	2,073	3,432	2,959	2,791	2,641	2,423	2,494	2,479	2,528	2,644
Mathematics and computer sciences	685	1,222	1,149	1,003	959	959	977	963	960	940

¹ Excludes agricultural economics, included in social sciences.

Source: U.S. National Science Foundation. Data from National Research Council, Doctorate Record File.

No. 1036. DOCTORAL SCIENTISTS AND ENGINEERS—SELECTED CHARACTERISTICS: 1975 TO 1981

(In thousands)

CHARACTERISTIC	1975	1977	1979	1981		CHARACTERISTIC	1975	1977	1979	1981	
				Num-ber	Em-ployed					Num-ber	Em-ployed
Total	270	303	332	363.9	342.9	Race:					
Field:						White.....	242	270	293.5	322.9	304.4
Physical scientists.....	58.4	62.1	64.3	67.7	63.2	Black.....	2.6	2.8	3.7	4.6	4.3
Mathematical scientists.....	14.2	15.4	16.1	16.5	15.5	Asian.....	12.9	15.7	21.7	27.9	26.9
Computer specialists.....	3.5	5.8	6.8	9.1	9.0	Other and not reported.....	13.0	14.4	13.4	8.5	7.3
Environmental scientists.....	12.5	13.5	15.1	16.6	16.0	Employment status:					
Engineers.....	43.4	46.5	51.5	58.3	56.9	Full-time employed.....	241	267	292.9	322.3	322.3
Life scientists.....	70.3	78.3	86.3	93.8	86.5	Part-time employed.....	7.3	7.5	10.7	10.7	10.7
Psychologists.....	31.4	35.7	40.3	45.4	43.0	Postdoctorates.....	8.2	9.8	10.2	10.5	10.5
Social scientists.....	36.8	45.8	52.0	56.4	52.7	Unemployed/seeking.....	2.5	3.3	2.9	2.6	(x)
Sex:						Not employed/not seeking.....	2.4	2.8	3.6	3.4	(x)
Men.....	245	272	294.0	318.1	302.6	Retired/not employed.....	8.7	9.7	10.3	12.5	(x)
Women.....	25.6	31.7	37.9	45.7	40.9	Other.....	.4	.5	.8	.4	(x)
						Not reported.....	.5	2.6	.9	1.4	(x)

X Not applicable.

Source: U.S. National Science Foundation, *Characteristics of Doctoral Scientists and Engineers in the United States: 1981* (NSF 82-332) and unpublished data.

No. 1037. DOCTORAL SCIENTISTS AND ENGINEERS, BY SELECTED STATES: 1981

(In thousands. Includes doctorate holders receiving their degrees between 1938 and June 1980. Selected States represent those with more than 4,000 scientists and engineers)

STATE	Total	Natural scientists	Social scientists	Engi-neers	STATE	Total	Natural scientists	Social scientists	Engi-neers
Total	363.9	208.7	101.9	53.3	Minn.....	6.5	4.2	1.8	.5
Calif.....	44.2	22.8	12.4	9.0	Mo.....	6.1	3.3	1.8	1.0
Colo.....	7.7	4.5	1.8	1.4	N.J.....	16.0	8.6	3.2	4.2
Conn.....	6.7	3.8	2.1	.8	N.Y.....	35.0	18.0	12.1	4.9
D.C.....	12.6	5.9	5.1	1.6	N.C.....	7.6	6.3	.6	.7
Fla.....	8.7	4.4	3.0	1.3	Ohio.....	14.4	7.8	4.0	2.6
Ga.....	5.1	3.4	1.3	.4	Pa.....	17.4	9.4	5.2	2.8
Ill.....	16.1	8.5	5.2	2.4	Tenn.....	6.1	3.8	1.4	.9
Ind.....	6.4	3.7	1.7	1.0	Tex.....	17.8	10.6	3.6	3.6
La.....	4.1	2.4	.9	.8	Va.....	9.8	5.6	2.7	1.5
Md.....	13.4	8.9	2.9	1.6	Wash.....	7.2	3.9	2.0	1.3
Mass.....	16.1	8.9	4.5	2.7	Wis.....	6.1	3.5	1.8	.8
Mich.....	11.8	6.7	3.2	1.9	Others.....	61.0	39.8	17.6	3.6

Source: U.S. National Science Foundation, *Characteristics of Doctoral Scientists and Engineers in the United States: 1981* (NSF 82-332).

No. 1038. FEDERAL SPACE PROGRAM—BUDGET AUTHORITY, BY AGENCY: 1960 TO 1983

(In millions of dollars, except percent, 1983 estimated. Through 1976, for years ending June 30; thereafter, years ending Sept. 30. NASA = National Aeronautics and Space Administration)

YEAR	Total ¹	NASA ²		Dept. of De-fense	Dept. of Com-merce	Dept. of Ener-gy ³	YEAR	Total ¹	NASA ²		Dept. of De-fense	Dept. of Com-merce	Dept. of Ener-gy ³
		Total	Per-cent of total						Total	Per-cent of total			
1960.....	1,066	462	49.2	561	(x)	43	1972.....	4,575	3,071	72.3	1,407	31	55
1961.....	1,808	926	53.3	814	(x)	68	1973.....	4,825	3,093	70.6	1,623	40	54
1962.....	3,295	1,797	55.4	1,298	51	148	1974.....	4,640	2,759	65.5	1,766	60	42
1963.....	5,435	3,626	67.6	1,550	43	214	1975.....	4,914	2,915	65.7	1,992	64	30
1964.....	6,831	5,016	74.7	1,599	3	210	1976.....	5,320	3,225	66.7	1,983	72	23
1965.....	9,956	5,138	75.5	1,574	12	229	1977.....	5,983	3,440	63.8	2,412	91	22
1966.....	6,970	5,065	74.2	1,689	27	187	1978.....	6,509	3,623	62.4	2,729	103	34
1967.....	6,710	4,830	74.0	1,864	29	184	1979.....	7,419	4,030	61.9	3,211	98	59
1968.....	6,529	4,430	70.3	1,922	28	145	1980.....	8,589	4,680	60.3	3,848	93	40
1969.....	5,976	3,822	66.8	2,013	20	118	1981.....	9,978	4,992	55.3	4,826	87	41
1970.....	5,341	3,547	70.1	1,878	8	103	1982.....	12,091	5,494	45.4	6,362	144	61
1971.....	4,741	3,101	69.8	1,512	27	95	1983.....	14,999	6,278	41.9	8,442	166	62

X Not applicable. ¹ Includes agencies not shown separately. ² Includes budget authority for the space transportation system of \$3.1 billion in 1982 and \$3.6 billion in 1983. ³ See footnote 1, table 1019.

Source: U.S. National Aeronautics and Space Administration, *Aeronautics and Space Report of the President*, annual. Data from U.S. Office of Management and Budget.

No. 1039. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION—OUTLAYS FOR RESEARCH AND DEVELOPMENT: 1965 TO 1983

[In millions of dollars, except percent. For years ending June 30 except, beginning 1977, ending Sept. 30. Performance includes research and development, and research and program management. Space science includes technology. Minus sign (—) indicates decrease]

YEAR	Total outlays	Percent change	PERFORMANCE				FACILITIES			
			Total	Space flight	Space science, applications	Air transport and other	Total	Space flight	Space science, applications	Air transport and other
1965	5,093	122.1	4,562	3,138	1,126	298	531	401	78	52
1966	5,933	16.5	5,361	3,819	1,120	422	572	391	63	118
1967	5,426	-8.5	5,137	3,477	1,160	500	289	172	47	70
1968	4,726	-12.9	4,599	3,028	1,061	510	127	69	29	29
1969	4,252	-10.0	4,167	2,754	893	540	65	27	21	17
1970	3,753	-11.7	3,699	2,195	963	541	54	14	21	19
1971	3,382	-9.9	3,338	1,877	926	535	44	8	6	30
1972	3,423	1.2	3,373	1,727	1,111	535	50	13	7	30
1973	3,316	-3.1	3,271	1,532	1,220	519	45	5	11	29
1974	3,256	-1.8	3,181	1,448	1,156	577	75	25	12	38
1975	3,266	.3	3,181	1,500	1,076	606	85	35	9	42
1976	3,670	12.4	3,549	1,934	969	646	121	66	11	43
1977	3,945	7.5	3,840	2,195	1,002	643	105	56	4	45
1978	3,984	1.0	3,860	2,204	964	692	124	56	8	60
1979	4,187	5.0	4,054	2,175	1,144	735	133	41	9	83
1980	4,850	15.8	4,710	2,556	1,341	813	140	38	5	97
1981	5,421	11.8	5,274	3,026	1,380	868	147	26	4	117
1982	6,035	11.3	5,928	3,526	1,454	946	109	17	3	89
1983, est.	6,722	11.4	6,585	3,996	1,515	1,074	137	38	2	97

¹ Change from 1964.

Source: U.S. Office of Management and Budget, *The Budget of the United States Government*, annual; and unpublished data.

No. 1040. SPACE VEHICLE SYSTEMS—SALES AND BACKLOG ORDERS: 1965 TO 1982

[In millions of dollars. Backlog orders as of Dec. 31. Based on data from major companies engaged in manufacture of aerospace products. Excludes engines and propulsion units]

YEAR	NET SALES			BACKLOG ORDERS			YEAR	NET SALES			BACKLOG ORDERS		
	Total	Military	Non-military	Total	Military	Non-military		Total	Military	Non-military	Total	Military	Non-military
1965	2,449	602	1,847	2,203	503	1,700	1976	2,002	904	1,098	1,234	902	332
1970	1,956	1,025	931	1,184	786	398	1977	1,870	814	1,056	1,589	1,283	306
1971	1,725	860	865	916	603	313	1978	2,324	1,006	1,318	2,188	1,693	495
1972	1,656	905	751	959	646	313	1979	2,539	1,105	1,434	1,448	909	539
1973	1,562	902	660	1,177	923	254	1980	3,483	1,461	2,022	1,814	951	863
1974	1,751	944	807	1,492	1,131	361	1981	3,856	1,736	2,120	3,174	2,164	1,010
1975	2,119	1,096	1,023	1,304	1,019	285	1982, prel.	4,851	2,581	2,270	2,918	2,086	832

Source: U.S. Bureau of the Census, *Current Industrial Reports*, MQ-37D, *Aerospace Industry (Sales and Orders)*.

No. 1041. SPACE PAYLOAD LAUNCHINGS: 1957 TO 1983

[Criterion of success is attainment of Earth orbit or Earth escape by payload]

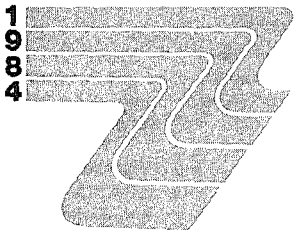
YEAR	UNITED STATES				Soviet Union successful launchings	YEAR	UNITED STATES				Soviet Union successful launchings
	Earth orbit		Earth escape				Earth orbit		Earth escape		
	Success	Failure	Success	Failure			Success	Failure	Success	Failure	
Total.....	1,000	134	79	15	2,076	1969.....	58	1	8	1	80
1957.....	-	1	-	-	2	1970.....	36	1	3	-	103
1958.....	-	8	-	4	3	1971.....	45	2	8	1	114
1959.....	5	9	1	2	3	1972.....	33	2	8	-	109
1960.....	16	12	1	2	3	1973.....	23	2	3	-	130
1961.....	35	12	-	2	8	1974.....	27	2	1	-	114
1962.....	55	12	4	1	26	1975.....	30	4	4	-	140
1963.....	62	11	-	-	20	1976.....	33	-	1	-	141
1964.....	69	8	4	-	39	1977.....	27	2	2	-	125
1965.....	93	7	4	1	76	1978.....	34	2	7	-	142
1966.....	94	12	7	1	52	1979.....	18	-	-	-	126
1967.....	78	4	10	-	75	1980.....	16	4	-	-	132
1968.....	61	15	3	-	85	1981.....	18	1	-	-	86
						1982.....	18	-	-	-	101
						1983, Jan.-Apr. 2.....	7	-	-	-	31

- Represents zero.

¹ Attained Earth orbit and included in Earth orbit success totals.

² Preliminary.

Source: Library of Congress, Congressional Research Service, Science Policy Research Division, *Space Activities of the United States, Soviet Union, and Other Launching Countries/Organizations*, February 1982, and unpublished data.



Section 22

Transportation— Land

This section presents statistics on revenues, passenger and freight traffic volume, and employment in various revenue-producing modes of the transportation industry, including motor vehicles, trains, and pipelines. Data are also presented on commuting travel; highway mileage, construction, and cost; motor vehicle travel, accidents, sales, and registrations; automobile operating costs; and characteristics of public transit and railroads.

The principal compiler of data on public roads and on operation of motor vehicles is the U.S. Department of Transportation's (DOT) Federal Highway Administration (FHWA). These data appear in FHWA's annual *Highway Statistics*. The U.S. Interstate Commerce Commission (ICC) presents data on interstate land transport in its publications, the *Annual Report to Congress* and the *Transport Statistics in the United States*, which contain data on railroads and motor carriers subject to ICC regulations.

The U.S. National Highway Traffic Safety Administration issues data on traffic accident deaths and death rates in two annual reports: the *Fact Book* and the *Fatal Accident Reporting System Annual Report*. DOT's Federal Railroad Administration presents data on accidents involving railroads in its annual *Accident/Incident Bulletin*, and the *Rail-Highway Crossing Accident/Incident and Inventory Bulletin*.

Various censuses and surveys conducted by the U.S. Bureau of the Census also provide data. Results of the censuses of transportation are presented in *Commodity Transportation Survey*, *National Travel Survey*, and *Truck Inventory and Use Survey*. The *Annual Survey of Manufactures* and reports of the censuses of manufactures, wholesale and retail trade, and service industries contain statistics on the motor-vehicle and equipment industry and on retail, wholesale, and services aspects of this industry. Data on persons commuting to work were collected as part of the 1980 census and are provided for selected metropolitan areas and cities in tables 1081 and 1082.

Data are also presented in many nongovernment publications. Among them are: The weekly and annual *Cars of Revenue Freight Loaded* and the annual *Yearbook of Railroad Facts*, both published by the Association of American Railroads, Washington, D.C.; *Bus Facts*, issued annually by the American Bus Association, Washington, D.C.; and the *Transit Fact Book*, containing electric railway and motorbus statistics, published annually by the American Public Transit Association, Washington, D.C. Useful annual handbooks in the field of transportation are *Motor Vehicle Facts and Figures*, issued by the Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, Mich.; *Accident Facts*, issued by the National Safety Council, Chicago, Ill.; and *Transportation in America*, issued by the Transportation Policy Associates, Washington, D.C.

Urban and rural highway mileage.—Beginning 1980, mileage is classified in urban and rural categories, rather than municipal and rural. Urban denotes the Federal-aid legislation definition of an area. Such areas include, as a minimum, a census place with a population of 5,000 to 49,999 or a designated urbanized area with a population of 50,000 or more. These Federal-aid urban areas may extend beyond corporate and census boundaries, and thus are not necessarily coextensive with municipal boundaries. Rural in 1980 refers to non-Federal-aid urban area mileage. Prior to 1980, municipal referred to roads within incorporated places, densely populated New England towns, and certain of the more populous unincorporated areas and rural to non-municipal roads.

Federal-aid highway systems.—Federal law provides that Federal funds be matched in varying proportions with State funds for the costs of planning, engineering, right-of-way acquisition, and construction of highways. Other costs, such as maintenance and policing, are borne entirely by the States and local agencies.

Effective July 1, 1976, a uniform road classification system was implemented which shortened the mileage of the highway system and redefined the three main systems of Federal-aid routes. The Federal-aid primary system is comprised of a network of main roads important to interstate, statewide, and regional travel. The system consists of main rural roads and their extensions into or through urban areas. The Federal-aid secondary system consists of rural roads of a more local nature, such as those which connect county seats and the larger population centers not served by the primary system. The Federal-aid urban system is located in urban places of 5,000 or more persons and consists of major urban roads and streets, except those on the primary system.

Regulatory bodies.—The ICC, created by the U.S. Congress to regulate transportation in interstate commerce, has jurisdiction over railroads, trucking companies, bus lines, freight forwarders, water carriers, coal slurry pipelines, and transportation brokers. The Federal Energy Regulatory Commission is responsible for setting rates and charges for transportation and sale of natural gas and for establishing rates or charges for transportation.

Motor carriers.—For 1960–1973, class I for-hire motor carriers of freight were classified by the ICC as those with \$1 million or more of gross annual operating revenue; since 1974, the class I minimum has been \$3 million. Effective January 1, 1980 class I revenue are those with \$5 million or more. For 1960–1968, class I motor carriers of passengers were classified by the ICC as those with \$200,000 or more of gross annual operating revenue; for 1969–1976, as those with revenues of \$1 million or more; and since 1977, as those with \$3 million or more.

Railroads.—Railroad companies reporting to the ICC are divided into specific groups as follows: (1) Regular line-haul (interstate) railroads (and their non-operating subsidiaries); (2) switching and terminal railroads; (3) private railroads prior to 1964 (identified by ICC as "circular" because they reported on brief circulars); and (4) unofficial railroads, so designated when their reports are received too late for tabulation. For the most part, the last 3 groups are not included in the statistics shown here.

For years prior to 1978, class I railroads were those with annual revenues of \$1 million or more for 1950–1955; \$3 million or more for 1956–1964; \$5 million or more for 1965–1975; and \$10 million or more for 1976–1977. Since 1978 the classification has been: Class I, those having more than \$50 million gross annual operating revenue; class II, from \$10 million to \$50 million; and class III, less than \$10 million.

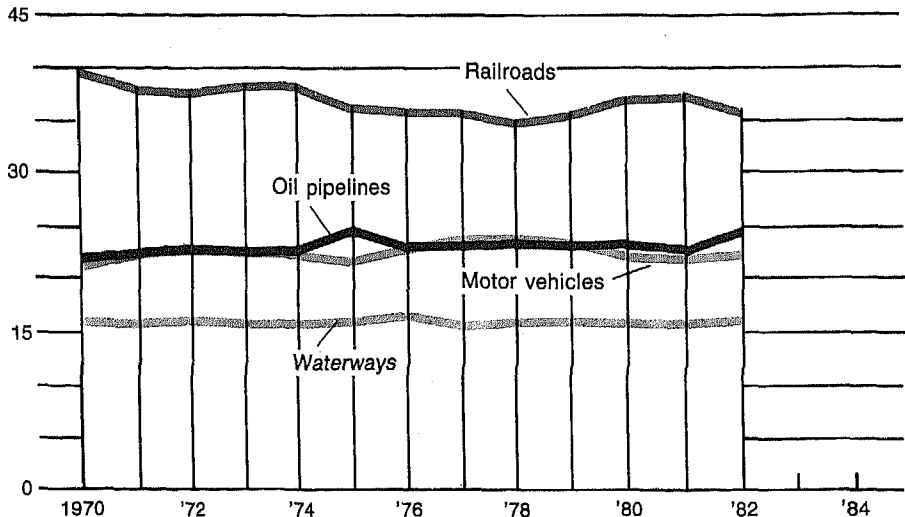
Statistical reliability.—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability, see Appendix III.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

Figure 22.1

Ton-Miles of Domestic Intercity Freight Traffic—Percent Distribution by Type of Transportation: 1970 to 1982

Percent



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1048.

Transportation Outlays

605

NO. 1042. PASSENGER AND FREIGHT TRANSPORTATION OUTLAYS, BY TYPE OF TRANSPORT: 1960 TO 1981

[In billions of dollars. Freight data include outlays for mail and express. ICC=Interstate Commerce Commission]

TYPE OF TRANSPORT	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total outlays ¹	105.6	141.0	195.6	241.0	265.6	281.6	297.8	346.9	392.2	446.1	492.4	543.2	595.2
Passenger, total	60.5	82.2	114.9	148.2	162.4	170.6	187.4	221.8	248.3	279.3	307.6	340.8	370.4
Private transportation	53.3	73.0	99.6	120.9	142.4	147.7	161.3	191.8	215.0	241.9	263.9	288.2	314.2
Automobiles ²	52.4	71.6	97.0	126.4	138.3	143.3	156.8	186.8	210.0	235.9	256.8	280.6	305.9
New and used cars	20.4	30.4	32.1	45.8	49.8	42.6	46.0	59.7	70.4	80.4	77.1	72.7	60.8
Tires, tubes, accessories	2.9	4.1	7.1	9.4	10.5	11.3	12.4	13.8	15.8	17.2	19.8	22.4	24.7
Gasoline and oil	16.0	19.6	29.9	33.9	38.2	48.8	53.9	58.6	55.7	60.3	78.3	102.3	113.9
Insurance less claims	2.4	2.8	4.4	6.4	6.2	5.9	4.5	6.4	9.5	10.2	10.3	11.5	10.7
Interest on debt	2.8	3.5	4.7	5.5	6.3	6.7	7.3	8.6	10.4	12.8	15.4	17.5	19.5
Registration and operator's permit fees	1.0	1.3	1.9	2.1	2.2	2.3	2.3	2.7	2.8	3.0	3.1	3.3	3.5
Repair, greasing, washing, parking, tolls	6.0	8.2	13.2	16.2	17.2	18.7	22.1	25.0	29.5	33.0	36.7	39.9	41.3
Air	.9	1.4	2.6	3.5	4.1	4.4	4.7	5.2	5.6	5.9	7.1	7.6	8.4
Aircraft	.2	.3	.4	.6	.8	.8	1.0	1.2	1.5	1.7	2.1	2.4	2.8
Operating costs	.7	1.0	2.3	3.0	3.3	3.6	3.8	4.0	4.1	4.2	5.0	5.2	5.6
For-hire transportation	7.2	9.2	15.3	18.3	20.0	22.9	26.2	30.0	33.3	37.3	43.3	52.6	56.2
Local ³	3.1	3.4	5.4	6.8	7.3	7.9	10.5	12.1	12.7	13.9	15.4	18.7	20.1
Bus and transit ⁴	1.3	1.5	1.8	2.2	2.7	2.9	4.7	5.8	5.9	6.7	7.5	9.0	9.6
School bus	.5	.7	1.2	1.5	1.6	1.9	2.2	2.4	2.5	2.7	3.2	3.8	4.2
Taxi	1.1	1.1	2.1	2.9	2.8	3.0	3.4	3.8	4.1	4.3	4.5	5.6	5.9
Intercity	3.3	4.4	7.7	9.4	10.4	12.3	12.9	14.9	17.2	19.6	23.3	28.6	30.9
Air	2.1	3.3	6.6	8.2	9.1	10.8	11.2	13.0	14.9	17.1	20.4	25.3	27.3
Rail ⁵	.6	.5	.3	.3	.4	.5	.6	.9	1.2	1.3	1.4	1.6	1.7
Bus	.6	.6	.8	.8	.9	1.0	1.0	1.1	1.1	1.2	1.4	1.7	1.8
International	.9	1.3	2.2	2.2	2.4	2.6	2.7	2.9	3.4	3.6	4.6	5.3	5.3
Freight, total ⁶	46.8	61.1	83.8	98.9	107.7	115.7	115.5	133.2	150.4	174.0	192.9	211.4	204.7
Highway	31.5	43.8	52.5	73.3	80.7	84.8	84.8	98.0	111.4	124.8	142.7	155.4	174.5
Truck, intercity	18.0	23.6	33.6	40.0	44.6	49.8	47.4	56.2	67.4	79.6	90.2	96.0	106.8
ICC regulated	7.2	10.1	14.6	18.7	20.8	22.7	22.0	28.0	31.0	36.5	41.2	43.0	47.1
Non-ICC regulated	10.7	13.6	19.0	21.3	23.8	26.1	25.4	30.2	36.4	43.1	49.0	53.0	61.7
Truck, local	13.5	20.1	28.8	33.1	35.9	35.9	37.3	41.5	43.9	49.1	52.3	59.2	65.5
Rail	9.0	9.9	11.9	13.1	14.8	17.0	16.5	19.2	20.5	21.9	24.8	27.7	30.3
Water	3.3	3.8	5.1	5.6	6.8	8.0	7.9	8.9	10.3	12.4	13.4	14.8	15.8
Oil pipeline	.9	1.1	1.4	1.6	1.7	1.9	2.2	2.5	3.2	5.5	6.2	7.1	7.4

¹ Total outlays less than sum of passenger and freight totals, as estimated freight costs included in costs of new cars, gasoline, oil, tires, and tubes have been excluded to prevent duplication. ² Includes business-owned vehicles. ³ Includes storage and rental. ⁴ Includes items not shown separately. ⁵ Includes Federal, State and local government operating subsidies and capital grants. ⁶ Includes Federal operating subsidies and capital grants for Amtrak.

Source: Transportation Policy Associates, Washington, D.C., *Transportation in America*, March 1983, with periodic supplements. (Copyright.)

NO. 1043. PERSONAL CONSUMPTION EXPENDITURES FOR TRANSPORTATION: 1960 TO 1982

[In billions of dollars, except percent. Represents market value of purchases of goods and services by individuals and nonprofit institutions]

TYPE OF PRODUCT OR SERVICE	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total transportation expenditures	42.4	58.4	80.6	117.9	129.4	155.2	179.3	198.1	219.4	236.6	261.7	269.8
Percent of total personal consumption ¹	13.1	13.6	13.0	13.3	13.2	14.3	14.9	14.7	14.6	14.2	14.1	13.5
User-operated transportation	39.1	54.5	74.3	108.8	119.7	144.1	167.0	184.6	204.0	218.5	241.8	249.4
New autos	14.0	21.4	21.9	27.0	29.3	38.1	44.3	48.2	49.1	46.3	50.6	52.9
Net purchases of used autos	2.6	3.9	5.3	7.8	8.9	11.9	13.2	14.9	15.7	15.5	16.8	21.0
Other motor vehicles	.6	1.3	2.9	6.0	7.1	10.9	13.9	17.9	14.9	10.1	11.4	14.4
Tires, tubes, accessories, other parts	2.5	3.4	6.1	9.6	10.5	11.7	13.5	14.7	16.9	18.9	20.9	21.6
Repair, greasing, washing, parking ²	5.1	6.9	11.2	15.9	18.8	21.3	25.1	28.1	31.2	32.3	35.3	37.5
Gasoline and oil	12.0	14.7	22.4	36.9	40.4	44.0	48.1	51.2	56.6	64.8	94.6	91.5
Bridges, tunnel, ferry, road tolls	.3	.5	.7	.8	.8	.9	.9	.9	.9	1.0	1.0	1.1
Insurance premiums less claims paid	2.0	2.4	3.8	5.1	3.9	5.4	8.1	8.7	8.8	9.7	9.2	9.4
Purchased local transportation ³	2.0	2.1	3.0	3.7	4.0	4.4	4.7	5.0	5.4	5.8	6.5	6.8
Transit systems	1.3	1.3	1.6	1.8	1.9	2.1	2.2	2.3	2.5	2.6	3.2	3.5
Taxicab	.6	.6	1.2	1.6	1.9	2.1	2.2	2.4	2.7	2.9	2.9	2.9
Purchased intercity transportation	1.3	1.9	3.4	5.5	5.7	6.7	7.7	8.5	10.0	12.3	13.4	13.6
Airline	.7	1.2	2.5	4.1	4.4	5.3	6.1	6.9	8.1	10.0	10.8	10.8
Bus	.3	.4	.5	.7	.7	.7	.7	.7	.9	1.0	1.1	1.1
Railway and other ⁴	.3	.3	.4	.7	.7	.8	.8	.9	1.1	1.3	1.5	1.6

¹ See table 744. ² Includes rental and storage. ³ Includes railway commutation, not shown separately. ⁴ Railway excludes commutation; "other" consists of baggage charges, coastal and inland waterway fares, and travel agents' fees.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-76*, and *Survey of Current Business*, July issues.

NO. 1044. FEDERAL OUTLAYS FOR TRANSPORTATION, BY FUNCTION: 1975 TO 1983

[In millions of dollars. For years ending June 30 except, beginning 1980, ending Sept. 30. 1983 estimated]

FUNCTION	1975	1980	1982	1983	FUNCTION	1975	1980	1982	1983
Total outlays ¹	10,388	21,120	20,560	22,036	Air transportation—Con.				
Ground transportation.....	6,501	15,079	14,326	14,571	Aeron. research and technology.....	316	509	563	567
Highway const. ²	4,821	8,397	7,934	8,781	Air carrier subsidies.....	64	89	84	55
Highway safety.....	150	1,126	269	237	Regulation.....	(NA)	28	26	24
Mass transit.....	929	3,307	3,930	3,847	Water transportation.....	1,459	2,235	2,696	3,160
Railroads.....	555	2,170	2,126	1,641	Marine safety, trans.....	922	1,613	2,070	2,554
Regulation.....	46	79	68	65	Ocean shipping.....	537	611	614	594
Air transportation.....	2,408	3,762	3,564	4,185	Regulation.....	(NA)	11	11	12
Airways and airports.....	2,029	3,136	2,891	3,539	Other.....	74	104	90	120

NA Not available. ¹ Total reflects deductions for offsetting receipts. ² Includes improvement.
Source: U.S. Office of Management and Budget, *The Budget of the United States Government*, annual.

NO. 1045. OPERATING, PASSENGER, AND FREIGHT REVENUES, BY TRANSPORT TYPE: 1970 TO 1981

TYPE OF TRANSPORT	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981
OPERATING REVENUES (mil. dol.)										
Air carrier, certificated ¹	9,290	12,419	14,703	15,356	17,503	19,926	22,892	27,170	32,947	36,216
Air carrier, supplemental ¹	337	374	429	433	418	516	530	562	782	(NA)
Bus, class I, intercity.....	722	815	933	955	993	983	1,037	1,205	1,311	1,472
Local transit.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	4,862	5,771	6,638	7,552
Oil pipeline.....	1,188	1,446	1,587	1,874	2,137	2,792	4,907	5,585	6,141	6,678
Gas pipeline (transmission companies).....	5,928	7,712	9,085	11,888	15,416	19,835	22,989	29,919	41,574	50,867
Motor carriers of property, class I, intercity.....	11,137	16,600	16,704	16,164	18,360	22,520	26,855	29,858	30,338	(NA)
Railroad, class I.....	11,982	14,770	16,923	16,402	18,537	20,081	21,721	25,219	28,103	30,734
Amtrak.....	(²)	202	257	253	287	310	321	398	454	512
Water transport, classes A and B ³	372	474	632	730	777	814	777	⁴ 772	(NA)	(NA)
Water transport, maritime.....	833	1,087	1,478	1,342	1,583	1,843	1,889	⁴ 2,235	(NA)	(NA)
Freight forwarders, class A.....	211	326	362	359	431	615	603	701	721	743
AVERAGE PASSENGER REVENUE PER PASSENGER-MILE (cents)										
Air carrier, certificated: ⁵ Total.....	6.00	6.63	7.52	7.69	8.16	8.61	8.49	8.96	11.53	12.83
First class.....	8.30	8.93	9.89	10.58	11.50	12.21	11.97	11.43	14.35	15.05
Coach plus economy.....	5.45	6.11	6.94	7.05	7.49	7.92	7.81	8.34	10.87	12.20
Railroad, class I: ⁵ Total.....	3.91	4.88	4.98	4.99	5.65	5.74	5.86	6.02	6.15	(NA)
Commutation.....	3.75	4.29	4.44	4.57	5.04	5.07	5.20	5.37	5.92	(NA)
Other than commutation.....	4.02	6.81	6.75	6.25	7.60	7.85	7.84	7.93	9.39	(NA)
Amtrak: Total.....	(²)	4.40	5.23	5.66	5.56	5.83	6.08	6.59	8.18	8.66
Commutation.....	(²)	3.46	3.52	4.40	3.59	3.01	3.07	3.56	3.62	(NA)
Other than commutation.....	(²)	4.44	5.29	5.71	5.82	5.92	6.16	6.67	8.32	(NA)
Bus, class I, intercity.....	3.60	4.05	4.42	4.85	5.14	5.18	5.62	6.21	7.26	⁴ 8.33
AVERAGE FREIGHT REVENUE PER TON-MILE (cents)										
Air carrier, certificated ⁵	21.91	23.31	25.92	28.22	31.81	34.20	37.10	41.02	46.29	46.80
Railroad, class I.....	1.43	1.62	1.86	2.04	2.20	2.29	2.36	2.60	2.85	3.16
Motor carriers of property, class I intercity:										
Common.....	7.46	8.34	9.00	9.20	9.97	10.85	11.20	⁴ 11.97	(NA)	(NA)
Contract.....	6.86	6.68	7.00	7.80	8.20	9.05	12.97	⁴ 13.50	(NA)	(NA)
Oil pipelines.....	.27	.29	.32	.37	.41	.54	.86	.94	1.03	1.22
Water carriers, classes A and B.....	.43	.55	.67	.77	.74	.81	.84	⁴ .90	(NA)	(NA)

NA Not available. ¹ Domestic and international. ² Amtrak established May 1, 1971. ³ Inland and coastal.

⁴ Preliminary. ⁵ Schedule service (domestic). ⁶ Excludes Amtrak and Auto-Train service.

Source: U.S. Dept. of Transportation, Transportation Systems Center, *National Transportation Statistics*, annual.

NO. 1046. EMPLOYMENT AND EARNINGS IN TRANSPORTATION, BY TYPE OF TRANSPORT: 1965 TO 1982

[Annual averages of monthly figures. Based on Current Employment Statistics Program; see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series Q 36-42]

TYPE OF TRANSPORT	NUMBER (1,000)						AVERAGE WEEKLY EARNINGS (dol.)					
	1965	1970	1975	1980	1981	1982	1965	1970	1975	1980	1981	1982
Total	2,532	2,684	2,636	2,962	2,922	2,794	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Trucking ¹	882	999	1,024	1,189	1,168	1,128	134	164	247	366	395	401
Public warehousing.....	82	84	84	91	88	84	94	121	171	248	265	278
Railroads.....	735	634	548	532	495	430	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Class I railroads ²	640	566	498	482	457	398	131	172	262	427	458	484
Airlines ³	229	352	363	453	455	445	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Local and interurban passengers.....	269	269	270	265	265	265	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Waterlines ⁴	230	213	195	213	219	203	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Pipelines ⁴	20	18	18	21	22	22	146	189	280	441	491	537
Transportation services.....	85	115	134	198	210	217	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. ¹ Includes terminals. ² See text, p. 604. ³ Covers establishments engaged in domestic and/or international service. ⁴ Oil and other commodities, except natural gas.

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

**NO. 1047. 50 LARGEST TRANSPORTATION COMPANIES—REVENUES AND ASSETS, BY RANK OF
OPERATING REVENUES: 1980 TO 1982**

[In billions of dollars, except percent. Revenues include nontransportation activities; assets as of end of companies' fiscal years. Companies listed derive more than 50 percent of their operating revenues from the transport of passengers and/or freight (e.g., railroads, airlines, motor carriers, pipelines); excludes companies primarily engaged in freight forwarding, or vehicle rental]

OPERATING REVENUE GROUP	1980				1981				1982			
	As-sets	Oper-ating rev-enues	Net in-come	Stock-holders' equity	As-sets	Oper-ating rev-enues	Net in-come	Stock-holders' equity	As-sets	Oper-ating rev-enues	Net in-come	Stock-holders' equity
50 largest, total.....	84.6	76.6	3.4	30.0	88.2	81.5	3.9	29.0	87.6	77.8	2.3	29.2
Lowest ten (41-50).....	4.6	3.4	(2)	1.5	5.4	3.8	.4	2.0	4.7	3.4	-.2	1.3
Second ten (31-40).....	6.7	5.7	.6	1.7	6.8	5.7	.3	1.3	5.6	4.7	.4	1.7
Third ten (21-30).....	13.0	9.9	.8	2.7	12.1	10.0	.7	3.4	11.7	8.8	.7	3.6
Fourth ten (11-20).....	23.0	17.3	.8	8.6	25.4	17.9	1.1	8.3	22.3	17.7	.6	7.5
Highest ten (1-10).....	37.2	40.3	1.2	15.4	39.5	44.1	1.3	13.9	43.4	43.4	.9	15.2
Percent, total:												
Lowest ten (41-50).....	5.4	4.4	.5	5.1	6.1	4.7	10.8	7.0	5.4	4.3	-9.6	4.5
Second ten (31-40).....	7.9	7.4	17.5	5.7	6.6	7.0	8.9	4.4	6.4	6.0	16.4	5.7
Third ten (21-30).....	15.4	13.0	22.9	9.1	13.8	12.3	18.5	11.8	13.3	11.3	28.8	12.2
Fourth ten (11-20).....	27.2	22.5	24.7	28.7	28.8	22.0	27.9	28.6	25.4	22.7	26.7	25.5
Highest ten (1-10).....	44.0	52.7	34.4	51.5	44.8	54.0	33.9	48.1	49.5	55.7	37.7	52.1

Z Less than \$50 million.

Source: Time, Inc., New York, N.Y.; adapted from *The Fortune Directory*, July issues. (Copyright.)

**NO. 1048. VOLUME OF DOMESTIC INTERCITY FREIGHT AND PASSENGER TRAFFIC, BY TYPE OF
TRANSPORT: 1960 TO 1982**

[A ton-mile is the movement of 1 ton (2,000 pounds) of freight for the distance of 1 mile. A passenger mile is the movement of 1 passenger for the distance of 1 mile. Comprises public and private traffic, both revenue and nonrevenue. See also *Historical Statistics, Colonial Times to 1970, series C1-22*]

TYPE OF TRANSPORT	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
FREIGHT TRAFFIC	BILLIONS OF TON-MILES													
Total.....	1,314	1,638	1,936	2,072	2,232	2,212	2,086	2,202	2,307	2,467	2,573	2,487	2,443	2,252
Railroads ¹	579	709	771	784	858	852	759	800	834	888	927	932	924	812
Motor vehicles.....	285	359	412	470	505	495	454	510	555	599	608	555	540	502
Inland waterways ²	220	262	319	398	358	355	342	373	368	408	425	407	410	375
Oil pipelines.....	228	306	491	476	507	506	507	515	546	586	608	588	584	558
Domestic airways ^{3,4}.....	.9	1.9	3.3	3.7	4.0	3.9	3.7	3.9	4.2	4.8	4.6	4.8	5.0	4.9
PASSENGER TRAFFIC	BILLIONS OF PASSENGER-MILES													
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Railroads ¹	44.06	43.28	39.82	37.84	38.44	38.52	36.74	36.33	36.15	35.18	36.03	37.47	37.82	36.06
Motor vehicles.....	21.69	21.92	21.26	22.68	22.63	22.38	21.97	23.16	24.06	24.28	23.64	22.32	22.10	22.29
Inland waterways ²	16.74	16.00	16.48	16.31	16.04	16.05	16.55	16.84	15.95	16.58	16.52	16.37	16.78	16.75
Oil pipelines.....	17.43	18.68	22.26	22.97	22.72	22.88	24.54	23.39	23.67	23.75	23.64	23.64	23.09	24.68
Domestic airways ^{3,4}.....	.07	.12	.17	.18	.18	.18	.19	.18	.18	.18	.18	.19	.20	.22
PASSENGER TRAFFIC	BILLIONS OF PASSENGER-MILES													
Total.....	781	918	1,181	1,297	1,341	1,308	1,354	1,460	1,529	1,602	1,590	1,558	1,574	1,610
Private automobiles.....	706	818	1,026	1,129	1,163	1,122	1,171	1,280	1,316	1,352	1,322	1,300	1,319	1,345
Domestic airways ^{3,6}	34	58	119	133	143	147	148	164	177	203	228	219	216	228
Bus ⁷	19	24	25	26	26	28	25	25	26	26	26	27	27	27
Railroads ¹	22	18	11	9	9	11	10	11	10	11	12	11	12	11
PASSENGER TRAFFIC	PERCENT DISTRIBUTION													
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Private automobiles.....	90.40	89.11	86.88	87.05	86.73	85.78	86.48	86.30	86.07	85.02	83.14	83.44	83.80	83.54
Domestic airways ^{3,6}	4.35	6.32	10.08	10.25	10.66	11.24	10.93	11.23	11.58	12.67	14.34	14.06	13.72	14.16
Bus ⁷	2.43	2.61	2.12	2.00	1.94	2.14	1.85	1.71	1.70	1.62	1.76	1.73	1.72	1.68
Railroads ¹	2.82	1.96	.93	.89	.67	.84	.74	.75	.65	.69	.75	.71	.76	.68

¹ Includes electric railways and rail commuter service. Beginning 1970, freight traffic excludes mail and express. ² Includes Great Lakes. ³ Revenue service only for certificated route and charter carriers. ⁴ Includes express, mail, and excess baggage. ⁵ Beginning 1979, excludes data for inland waterways. ⁶ Includes private pleasure and business flying. ⁷ Excludes school and urban transit buses.

Source: Transportation Policy Associates, Washington, D.C., *Transportation in America*, March 1983, with periodic supplements. (Copyright.)

No. 1049. FUEL CONSUMPTION BY MODE OF TRANSPORTATION: 1970 TO 1981

ITEM	Unit	1970	1973	1975	1976	1977	1978	1979	1980	1981
Class I railroads:										
Locomotives:										
Diesel oil.....	Mil. gal.....	3,800	4,141	3,732	3,890	3,982	3,966	4,069	3,942	3,774
Electricity.....	Mil. kWh.....	578	346	422	353	417	331	309	190	81
Coal.....	Tons.....	1,238	1,202	1,160	1,421	1,569	1,275	1,421	908	(NA)
Motor cars:										
Diesel oil.....	Mil. gal.....	8	3	4	5	3	2	3	2	1
Electricity.....	Mil. kWh.....	763	901	857	790	986	991	1,062	968	380
Certified air carriers:										
Jet fuel ¹	Mil. gal.....	10,085	10,671	9,507	9,808	10,268	10,639	11,369	11,131	10,586
General aviation:										
Aviation gasoline.....	Mil. gal.....	551	411	412	432	456	518	570	520	489
Jet fuel.....	Mil. gal.....	208	304	453	495	536	763	736	766	759
Highway:										
Gasoline:										
Passenger cars and taxis.....	Mil. gal.....	65,649	77,619	76,010	78,398	80,225	83,312	79,793	73,375	72,080
Motorcycles.....	Mil. gal.....	135	392	447	448	451	463	440	360	360
Diesel and gasoline ²	Mil. gal.....	26,544	32,482	32,527	38,853	38,948	41,293	41,882	41,226	40,530
Water transport:										
Fuel oil ³	Mil. gal.....	4,593	5,006	5,158	6,123	6,825	8,194	9,634	10,135	9,645
Gasoline.....	Mil. gal.....	598	717	730	764	774	812	780	1,052	1,093
Transit:										
Electricity, total.....	Mil. kWh.....	(NA)	(NA)	(NA)	(NA)	(NA)	2,017	2,843	2,793	2,818
Motor fuel ⁴	Mil. gal.....	(NA)	(NA)	(NA)	(NA)	(NA)	370	397	425	435
Pipe lines, natural gas.....	Mil. cu. ft.....	722,166	728,177	582,963	548,323	532,669	530,451	600,964	634,622	642,325
Non-highway use of gasoline, total.....	Mil. gal.....	4,003	3,896	3,642	3,778	3,725	3,577	3,645	3,655	3,515

NA Not available. ¹Includes small amounts of aviation gasoline. ²Includes commercial and school buses and single-unit and combination trucks. ³Includes residual and distillate fuel oil. ⁴Includes gasoline, diesel oil, and propane.

Source: U.S. Department of Transportation, Transportation Systems Center, Cambridge, Mass., *National Transportation Statistics*, annual.

No. 1050. TRANSPORTATION ACCIDENTS, AND RESULTING DEATHS AND INJURIES, BY TYPE OF TRANSPORT: 1970 TO 1982

[Data for waterborne carriers are for years ending June 30 except, beginning 1977, ending Sept. 30; all other data for calendar year. For motor vehicle data, see also tables 1064-1066; for railroad data, see also tables 1088 and 1095; for air carrier and general aviation data, see tables 1099 and 1102]

YEAR AND CASUALTY	Total (1,000)	TYPE OF TRANSPORT								Hazardous materials ⁹
		Motor vehicle ¹ (1,000)	Railroad ²	Air carrier ³	General aviation ⁴	Recreational boating ⁵	Gas pipelines ⁶	Liquid pipelines ⁷	Waterborne ⁸	
Accidents:										
1970.....	16,021	16,000	8,095	(NA)	(NA)	3,803	1,019	351	2,582	(NA)
1975.....	16,523	16,500	8,041	31	4,001	6,308	1,373	254	3,305	10,779
1978.....	18,329	18,300	11,277	24	4,218	6,529	2,088	256	4,268	18,022
1979.....	18,126	18,100	8,740	15	3,824	5,368	1,920	248	4,665	17,524
1980.....	17,924	17,900	8,451	21	3,587	5,513	1,956	219	5,738	16,115
1981.....	18,022	18,000	5,781	25	3,504	5,208	1,695	239	5,217	9,165
1982.....	18,121	18,100	4,589	16	3,276	5,377	1,708	200	5,414	6,487
Deaths:										
1970.....	56.5	52.6	785	(NA)	(NA)	1,418	22	4	178	(NA)
1975.....	48.1	44.6	575	122	1,258	1,466	14	7	190	27
1978.....	54.1	50.3	582	160	1,558	1,321	31	3	179	46
1979.....	54.9	51.1	546	351	1,237	1,400	45	4	190	18
1980.....	54.5	51.1	584	-	1,252	1,360	11	3	147	19
1981.....	52.5	49.3	556	4	1,288	1,206	17	5	164	10
1982.....	47.3	44.0	511	235	1,164	1,178	29	-	158	12
Injuries:										
1970.....	2,025	2,000	21,327	(NA)	(NA)	780	347	21	105	(NA)
1975.....	1,859	1,800	54,308	75	718	2,136	819	17	74	655
1978.....	2,076	2,000	72,545	89	747	1,761	452	9	119	1,132
1979.....	2,077	2,000	74,126	57	625	2,463	57	8	118	941
1980.....	2,066	2,000	62,246	19	653	2,650	310	15	180	619
1981.....	1,957	1,900	53,003	230	1,571	2,474	(NA)	(NA)	175	662
1982.....	1,745	1,700	40,294	257	1,369	2,682	(NA)	(NA)	180	125

- Represents zero. NA Not available. ¹Data on deaths are from U.S. National Highway Traffic Safety Administration and are based on 30 day definition; see table 1064. Other data are from National Safety Council. ²Number of accidents includes grade crossing accidents and covers only those accidents which result in damages to railroad property exceeding amounts specified by the U.S. Federal Railroad Administration. The reporting threshold was raised from \$750 to \$1,750 in 1975 to \$2,300 in 1977; to \$2,900 in 1979; and to \$3,700 in 1981. Deaths exclude fatalities in railroad-highway grade crossing accidents.

³Includes only scheduled air carriers operating under 14 CFR 121 (airlines). Injuries include only serious injuries. 1981 and 1982 injuries include commuter carrier and air taxis. ⁴1975-1982 data excludes commuter and on-demand air taxis operating under 14 CFR 135. ⁵Accidents are required to be reported to U.S. Coast Guard whenever they result in a death; a person's losing consciousness or receiving medical treatment or being disabled for more than 24 hours; damages exceeding \$100; or a person's disappearance. ⁶Accidents as reported on incident/accident reports filed during reporting year. Fatalities and injuries as reported in annual report. ⁷Pipelines carrying hazardous materials, petroleum, and liquid petroleum products. ⁸Covers accidents involving commercial vessels which must be reported to U.S. Coast Guard if there is property damage exceeding \$1,500; material damage affecting the sea-worthiness or efficiency of a vessel; stranding or grounding; loss of life; or injury causing a person's incapacity for more than 3 days. ⁹Accidents, deaths, and injuries involving hazardous materials cover all types of transport.

Source: U.S. Dept. of Transportation, Transportation Systems Center, Cambridge, Mass., *Transportation Safety Information Report*, annual.

**NO. 1051. HIGHWAY MILEAGE—URBAN AND RURAL, BY TYPE OF CONTROL, AND FEDERAL-AID
HIGHWAY SYSTEM: 1950 TO 1981**

[In thousands, except percent. As of Dec. 31. Beginning 1980, data for urban and rural mileage are not comparable to prior years because of classification changes; see text, p. 603. See also *Historical Statistics, Colonial Times to 1970*, series Q 50, 51, and 55]

TYPE AND CONTROL	1950	1955	1960	1965	1970	1975	1978	1979	1980	1981
Total mileage¹	3,313	3,418	3,546	3,690	3,730	3,838	3,865	3,918	* 3,955	3,853
Urban mileage ²	323	373	430	506	561	639	694	694	624	632
Under State control	36	42	50	65	74	84	87	86	79	90
Under local control	287	331	379	442	487	555	607	607	543	540
Rural mileage	2,990	3,045	3,116	3,183	3,169	3,199	3,190	3,224	* 3,331	3,221
Percent surfaced ⁴	56.2	63.8	69.5	72.3	76.1	77.6	79.4	77.5	77.5	86.1
Under State control	580	620	659	687	707	711	704	697	702	726
Under local control	2,336	2,333	2,345	2,346	2,275	2,261	2,254	2,241	2,270	2,236
Under Federal control	73	93	112	150	188	227	232	284	262	256
Federal-aid highway system: ⁵										
Primary	234	235	265	269	272	286	301	303	300	298
Interstate	(X)	(X)	(X)	21	32	37	42	40	41	42
Urban	(X)	(X)	(X)	(X)	(X)	65	126	124	124	129
Secondary	410	514	601	640	647	643	396	397	398	401

X Not applicable. ¹ Prior to 1980, includes public and nonpublic road mileage; beginning 1981, includes only public road mileage as defined 23 USC 402. ² Includes 98,000 miles of nonpublic road mileage previously contained in other rural categories. ³ Prior to 1980, represents municipal mileage; see text p. 603. ⁴ Covers soil-surfaced roads and roads with slag, gravel, stone, bituminous, or concrete surfaces. ⁵ For definition, see text, p. 603. Beginning 1979, data represent actual mileage open to traffic rather than total highway miles carrying interstate traffic.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

NO. 1052. HIGHWAY MILEAGE—URBAN, RURAL, AND FEDERAL-AID HIGHWAY SYSTEM: 1981

[As of Dec. 31. For definition of urban, rural, and Federal-aid highway system roads; see text, p. 603]

STATE	Urban (1,000)	Rural (1,000)	FEDERAL-AID HIGHWAY SYSTEM ¹				STATE	Urban (1,000)	Rural (1,000)	FEDERAL-AID HIGHWAY SYSTEM ¹			
			Primary		Urban	Sec- ondary				Primary		Urban	Sec- ondary
			Total	Inter- state						Total	Inter- state		
U.S.	632.0	3,220.7	298,256	42,268	129,447	400,823	Mo	13.8	104.6	7,908	1,113	2,149	18,110
Ala	13.7	73.5	7,448	825	2,187	11,054	Mont	2.5	69.2	6,578	1,120	341	4,725
Alaska	1.0	8.1	2,048	1,091	110	1,944	Nebr	4.3	87.6	7,743	481	957	11,390
Ariz	8.8	69.5	4,612	1,136	1,736	3,159	Nev	2.0	41.5	2,379	534	351	2,401
Ark	7.5	69.3	5,652	532	934	6,457	N.H.	2.1	12.4	1,352	202	582	1,266
Calif	62.9	113.8	13,507	2,258	15,484	10,716	N.J.	20.8	12.6	1,779	339	5,189	1,945
							N. Mex	4.4	49.4	4,542	997	660	3,754
Colo	8.7	67.0	5,212	907	2,142	3,448	N.Y.	36.2	73.4	9,766	1,412	7,838	6,342
Conn	10.0	9.4	1,598	293	2,793	928	N.C.	15.1	77.5	5,083	768	1,768	10,703
Del	1.4	3.9	465	41	272	630	N. Dak	1.4	84.5	6,166	571	366	10,380
D.C.	1.1	-	92	12	317	-	Ohio	29.0	81.9	7,872	1,535	7,296	11,798
Fla	35.2	62.0	9,779	1,257	5,472	4,672	Okla	11.5	98.5	6,230	811	2,135	8,852
Ga	15.8	88.6	11,359	1,163	2,889	14,099	Oreg	7.8	113.6	5,679	703	1,743	7,835
Hawaii	1.2	2.9	540	37	178	406	Pa	27.9	89.2	11,418	1,507	6,881	8,219
Idaho	2.3	65.2	3,208	602	578	4,218	R.I.	3.6	2.6	474	72	820	166
Ill	28.5	105.2	11,375	1,708	6,164	12,852	S.C.	7.2	55.5	6,246	756	804	8,856
Ind	17.3	74.4	6,078	1,114	4,646	9,057	S. Dak	1.6	71.4	6,506	656	332	11,059
Iowa	8.1	104.4	9,854	783	2,195	13,279	Tenn	11.9	71.6	6,742	1,033	2,438	9,792
Kan	8.0	124.2	8,921	806	1,379	22,584	Tex	56.5	211.8	19,734	3,143	6,887	32,675
Ky	6.6	61.8	4,459	737	1,744	7,272	Utah	4.2	39.5	3,346	780	690	2,628
La	10.0	46.7	3,758	682	1,234	7,589	Vt	7	13.2	1,407	309	214	1,987
Maine	2.2	19.7	2,307	310	644	2,739	Va	12.3	52.4	6,385	1,000	2,662	10,358
Md	9.8	17.2	2,499	381	1,906	2,034	Wash	14.7	68.6	5,682	683	3,857	7,083
Mass	19.8	14.0	2,732	529	5,678	2,113	W. Va	3.2	31.8	2,820	390	785	6,331
Mich	25.1	92.3	7,054	1,129	4,804	19,007	Wis	12.9	85.3	9,555	578	2,605	11,839
Minn	12.7	118.1	10,117	867	1,859	16,250	Wyo	1.2	35.5	3,871	913	336	2,273
Miss	6.0	64.4	6,521	682	1,415	11,549							

- Represents zero. ¹ Highway mileage open to traffic. ² By authority of Section 10 of P.L. 97-134.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

NO. 1053. HIGHWAY MILEAGE AND DAILY VEHICLE MILES OF TRAVEL (DVMT) BY TYPE OF ROAD: 1981

[Based on data from the Highway Performance Monitoring System (HPMS)]

TYPE	Mile- age (1,000)	DVMT (mil.)	PERCENT OF TOTAL		TYPE	Mile- age (1,000)	DVMT (mil.)	PERCENT OF TOTAL	
			Mile- age	DVMT				Mile- age	DVMT
Rural road systems ¹...	3,221	1,881	100.0	100.0	Small urban—Con.				
Principal arterial.....	115	750	3.6	39.9	Minor arterial.....	16	87	10.7	20.3
Interstate.....	33	380	1.0	20.2	Collector.....	19	37	12.2	11.2
Other.....	82	370	2.5	19.6	Local.....	103	80	66.9	18.4
Minor arterial.....	149	362	4.6	19.2	Urbanized area road				
Collector.....	740	534	23.0	28.4	systems	478	2,041	100.0	100.0
Local.....	2,217	235	68.8	12.5	Principal arterial.....	45	1,148	9.5	56.3
Small urban road					Interstate.....	8	431	1.7	21.1
systems.....	153	328	100.0	100.0	Other freeway, expressway...	6	207	1.2	10.2
Principal arterial.....	16	164	10.2	50.1	Other.....	32	510	6.6	25.0
Interstate.....	1	25	.9	7.6	Minor arterial.....	50	399	10.4	19.6
Other freeway, expressway...	1	16	.8	4.8	Collector.....	50	184	10.5	9.0
Other.....	13	123	8.5	37.6	Local.....	333	310	69.6	15.2

¹ Includes only public road mileage.

Source: U.S. Federal Highway Administration, unpublished data.

NO. 1054. HIGHWAY MILEAGE—PAVEMENT CONDITION FOR URBAN AND RURAL AREAS, BY TYPE OF ROAD SYSTEM: 1978 TO 1981

[Highway pavement condition is classified by the Present Serviceability Rating (PSR) system, which ranges from a high of 5.0 down to 0.0. The reported ranges are defined as: PSR 5.0-3.5, pavements give a first class ride and exhibit few, if any, visible signs of surface wear. Of the quality of new or nearly new pavements. PSR 3.4-2.0, pavements have a riding quality somewhat inferior to that of new pavements or may even be barely tolerable at high speeds. Surfaces may show signs of cracking, substantial patching, and rutting. PSR 1.9-0.0, pavements show extensive wear to the point of needing resurfacing or may even need complete reconstruction]

PAVEMENT CONDITION	INTERSTATE ROAD SYSTEMS			ARTERIAL ROAD SYSTEMS			COLLECTOR ROAD SYSTEMS		
	1978	1980	1981	1978	1980	1981	1978	1980	1981
URBAN AREAS									
Percent of road mileage rated—									
PSR 0.1-1.9 (0.1-2.4) ¹	8	6	6	5	7	7	7	9	9
PSR 2.0-3.4 (2.5-3.4) ¹	34	26	30	48	42	43	59	50	53
PSR 3.5-5.0.....	58	68	64	47	51	50	34	41	38
RURAL AREAS									
Percent of road mileage rated—									
PSR 0.1-1.9 (0.1-2.4) ¹	9	5	6	6	6	7	9	16	13
PSR 2.0-3.4 (2.5-3.4) ¹	28	26	29	52	46	47	66	55	56
PSR 3.5-5.0.....	63	69	65	42	48	46	25	29	31

¹ PSR range shown in parentheses applies to Interstate roads only.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

NO. 1055. HIGHWAY CONSTRUCTION—CONTRACTS AWARDED: 1960 TO 1980

[In millions of dollars. Covers contracts awarded and force-account work authorized by State agencies for highways, including Federal-State, Federal-State-Local, and State-Local cooperative work, and a small amount by the Federal government for National Park and Forest roads, etc. Work on local roads and streets is included only when contracted or performed by the State or when Federal funds are involved]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
Total.....	4,039	4,825	6,506	6,462	7,154	7,187	6,037	7,542	8,904	10,778	9,865
Federally aided contracts.....	3,174	3,921	4,915	4,598	5,257	5,967	5,030	6,169	6,861	8,667	7,880
Federal funds.....	2,292	3,001	3,657	3,379	4,222	4,824	4,004	4,968	5,504	7,122	6,427
Non-federally aided contracts.....	865	904	1,592	1,864	1,897	1,220	1,007	1,373	2,043	2,111	1,985
Toll facilities.....	226	49	49	146	13	11	35	21	13	84	(NA)

NA Not available.

Source: U.S. Federal Highway Administration, *Monthly Highway Construction Contracts*.

No. 1056. RECEIPTS AND DISBURSEMENTS FOR HIGHWAYS, BY TYPE: 1970 TO 1981

[In millions of dollars. Data compiled from reports of State and local authorities. For Federal highway trust fund receipts, disbursements, and balances, see table 502. State data include District of Columbia]

TYPE	1970	1975	1977	1978	1979	1980	1981 ¹		
							Total ¹	Fed- eral	State
Total receipts	21,747	29,160	33,243	35,504	38,085	39,715	41,127	10,227	20,856
Current income.....	19,861	26,921	31,013	33,621	36,181	37,604	39,357	10,227	19,891
Imposts on highway users ²	15,311	18,578	21,339	22,360	22,763	22,559	23,759	6,463	16,672
Other taxes and fees.....	3,732	6,605	7,822	8,905	10,470	11,808	12,056	2,477	1,964
Investment income and other receipts.....	818	1,738	1,852	2,355	2,948	3,237	3,542	1,267	985
Bond issue proceeds ³	1,886	2,239	2,230	1,893	1,904	2,111	1,770	-	-
¹ Intergovernmental payments ⁴	(x)	(x)	(x)	(x)	(x)	(x)	(x)	-9,768	+4,654
Funds drawn from (+) or placed in (-) reserves.....	-912	-461	-3,411	-2,070	-641	+2,080	+951	+759	-97
Total funds available.....	20,835	26,699	29,832	33,434	37,444	41,795	42,078	1,218	25,413
Total disbursements	20,835	28,699	29,832	33,434	37,444	41,795	42,078	1,218	25,413
Current disbursements.....	19,583	27,207	28,184	31,841	35,693	40,084	39,767	1,218	23,834
Capital outlay.....	11,575	14,398	13,079	14,939	17,612	20,337	19,384	785	14,049
Maintenance and traffic services.....	4,720	7,286	8,612	9,785	10,571	11,445	12,056	126	5,025
Administration and research.....	1,275	1,981	2,370	2,590	2,728	3,022	3,245	307	1,973
Law enforcement and safety.....	1,303	2,413	2,842	3,160	3,359	3,824	3,979	-	2,204
Interest on debt.....	710	1,129	1,281	1,368	1,425	1,456	1,103	-	583
Debt retirement ⁵	1,252	1,492	1,648	1,593	1,751	1,711	2,311	-	1,579

- Represents zero. X Not applicable.

¹ Includes other levels of government not shown separately.

² Excludes amounts later allocated for nonhighway purposes.

³ Par value. Excludes issue and redemption of short-term notes

or refunding bonds. Premiums and discounts on sale of bonds and accrued interest are included with investment income and other receipts. Redemption premiums and discounts are included with interest on debt. ⁴ Plus sign (+) indicates net receipt of funds from other levels of government; minus sign (-) indicates net disbursement of funds to other levels.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual; and releases.

No. 1057. DISBURSEMENTS OF STATE HIGHWAY FUNDS—TOTAL, 1975 TO 1981, AND BY PURPOSE, 1981, BY STATES

[In millions of dollars. Comprises disbursements from current revenues or loans for construction, maintenance, interest and principal payments on highway bonds, transfers to local units, and miscellaneous. Includes transactions by State toll authorities. Excludes amounts allocated for collection and nonhighway purposes, and bonds redeemed by refunding. See also *Historical Statistics, Colonial Times to 1970*, series Q 90-94]

STATE	1975, total	1979, total	1980, total	1981 ¹			STATE	1975, total	1979, total	1980, total	1981 ¹		
				Total ¹	State highways						Total ¹	State highways	
					Capit- al out- lays ²	Mainte- nance ³						Capit- al out- lays ²	Mainte- nance ³
U.S....	21,131	26,487	30,049	29,056	13,817	4,946	Mo.....	448	589	555	500	209	122
Ala.....	364	482	517	576	316	57	Mont.....	123	198	224	218	142	35
Alaska.....	254	(NA)	274	292	140	85	Nebr.....	210	(NA)	274	293	147	36
Ariz.....	270	345	365	386	205	32	Nev.....	85	132	169	155	94	23
Ark.....	283	339	425	326	172	56	N.H.....	92	161	152	140	39	37
Calif.....	1,497	1,723	1,930	2,119	870	180	N.J.....	510	607	662	737	273	164
Colo.....	239	364	411	376	147	86	N. Mex.....	142	197	197	273	160	39
Conn.....	351	351	393	403	161	48	N.Y.....	1,129	1,694	1,650	1,596	753	267
Del.....	90	118	152	169	84	17	N.C.....	541	755	807	730	316	188
D.C.....	77	42	57	83	32	24	N. Dak.....	97	137	143	156	88	23
Fla.....	781	929	1,261	1,206	703	126	Ohio.....	877	1,025	1,032	1,070	359	136
Ge.....	487	722	782	879	682	76	Okl.....	290	408	461	519	228	77
Hawaii.....	105	129	134	126	64	16	Oreg.....	318	391	482	407	206	42
Idaho.....	119	161	153	155	60	30	Pa.....	1,485	1,235	1,557	1,679	568	534
Ill.....	1,189	1,352	1,652	1,452	736	195	R.I.....	52	68	72	74	29	19
Ind.....	529	682	688	695	179	182	S.C.....	255	306	309	281	130	75
Iowa.....	409	566	504	508	169	63	S. Dak.....	98	150	151	156	91	29
Kans.....	262	385	440	406	215	75	Tenn.....	467	568	609	576	324	76
Ky.....	515	869	913	758	387	120	Tex.....	984	1,313	1,882	1,699	1,114	363
La.....	545	594	682	813	566	59	Utah.....	125	205	241	219	147	26
Maine.....	117	169	164	168	71	56	Vt.....	76	91	87	110	50	25
Md.....	443	612	663	683	179	84	Va.....	574	870	894	769	362	208
Mass.....	415	554	704	(NA)	(NA)	(NA)	Wash.....	417	708	787	757	377	120
Mich.....	794	985	997	1,001	306	120	W. Va.....	417	614	672	566	306	131
Minn.....	358	557	611	669	243	218	Wis.....	371	452	468	467	206	73
Miss.....	339	427	468	464	284	40	Wyo.....	116	155	192	196	129	34

NA Not available. ¹ Includes funds for administration and miscellaneous, highway law enforcement, bond interest, bond redemption, and county and local roads and streets. ² Outlays for roads and bridges. ³ Includes traffic services.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

Transportation—Land

NO. 1058. FEDERAL-AID PAYMENTS TO STATE AND LOCAL GOVERNMENTS FOR HIGHWAY CONSTRUCTION—STATES AND PUERTO RICO: 1980 TO 1982

[In millions of dollars. For years ending Sept. 30]

STATE	1980	1981	1982		STATE	1980	1981	1982		STATE OR OTHER AREA	1980	1981	1982	
			Total	High-way trust fund				Total	High-way trust fund				Total	High-way trust fund
Total	9,246	9,068	7,673	7,626	Kans.....	151	133	109	106	Ohio.....	260	286	232	223
U.S.	9,177	9,000	7,615	7,583	Ky.....	172	168	135	132	Okl.....	108	99	58	55
Ala.....	182	231	189	184	La.....	169	167	154	151	Oreg.....	150	157	139	138
Alaska.....	105	120	118	107	Maine.....	47	43	44	42	Pa.....	249	423	382	369
Ark.....	148	142	118	115	Md.....	246	272	327	323	R.I.....	25	34	25	24
Calif.....	158	113	87	85	Mass.....	172	179	144	141	S.C.....	96	87	87	83
Colo.....	502	576	509	492	Mich.....	263	240	248	238	S. Dak.....	136	65	53	52
Conn.....	86	93	126	125	Minn.....	197	192	195	191	Tenn.....	212	217	163	160
Del.....	35	42	33	32	Miss.....	87	82	87	84	Tex.....	538	581	430	421
D.C.....	9	23	28	26	Mo.....	223	201	183	178	Utah.....	125	137	102	100
Fla.....	419	363	286	281	Mont.....	133	128	74	72	Vt.....	33	34	38	36
Ga.....	270	245	212	206	Nev.....	78	80	73	71	Va.....	321	260	168	164
Hawaii.....	66	52	49	48	N.H.....	89	108	56	44	Wash.....	273	313	299	296
Idaho.....	64	58	53	52	N.J.....	39	36	45	44	W. Va.....	188	217	183	181
Ill.....	527	408	350	339	N. Mex.....	77	85	100	99	Wis.....	184	152	129	125
Ind.....	170	166	161	154	N.Y.....	580	453	396	382	Wyo.....	54	68	67	56
Iowa.....	143	140	114	111	N.C.....	236	207	168	162	Undist.....	27	34	23	21
					N. Dak.....	60	68	43	42	P. Rico.....	142	135	135	21

¹ Includes \$7 million in 1980; \$6 million in 1981; and \$12 million in 1982 for other U.S. outlying areas.

Source: U.S. Dept. of the Treasury, *Federal Aid to States*, annual.

NO. 1059. FEDERAL AND STATE GASOLINE TAX—STATES: 1970 TO 1982

[Cents per gallon. In effect Dec. 31. See also *Historical Statistics, Colonial Times to 1970*, series Q 233-234]

STATE	1970	1980	1981	1982	STATE	1970	1980	1981	1982	STATE	1970	1980	1981	1982
Total	11.0	12.2	13.2	13.1	Iowa.....	7	10	13	13	N.C.....	9	9	12	12
Federal.....	4.0	4.0	4.0	4.0	Kans.....	7	8	8	8	N. Dak.....	7	8	8	8
State avg. ²	7.0	8.2	9.2	9.1	Ky. ⁴	7	9	10	10	Ohio.....	7	7	10.3	11.7
Ala.....	7	11	11	11	La.....	8	8	8	8	Okl.....	6.5	6.58	6.58	6.58
Alaska.....	8	8	8	8	Maine.....	8	9	9	9	Oreg.....	7	7	8	8
Ark.....	7	8	8	12	Md.....	7	9	9	13.5	Pa.....	8	11	11	11
Calif.....	7.5	9.5	9.5	9.5	Mass.....	6.5	9.8	11.1	9.9	R.I.....	8	10	12	19
Colo.....	7	7	7	9	Mich.....	7	11	11	13	S.C.....	7	11	13	13
Conn.....	8	11	11	11	Minn.....	7	11	13	13	S. Dak.....	7	12	13	13
Del.....	7	9	11	11	Miss.....	8	9	9	9	Tenn.....	7	7	9	9
D.C.....	7	11	13	14	Mo.....	5	7	7	7	Tex.....	5	5	5	5
Fla.....	7	8	8	8	Mont.....	7	9	9	9	Utah.....	7	9	11	11
Ga.....	6.5	7.5	7.5	7.5	Nebr. ⁵	8.5	13.6	13.9	13.9	Vt.....	8	9	11	11
Hawaii.....	5	8.5	8.5	8.5	Nev.....	6	8	10.5	12	Va. ⁴	7	11	11	11
Idaho.....	7	9.5	11.5	12.5	N.H.....	7	11	14	14	Wash.....	9	12	12	12
Ill.....	7.5	7.5	7.5	7.5	N.J.....	7	8	8	8	W. Va.....	8.5	10.5	10.5	10.5
Ind.....	8	8.5	11.1	11.1	N. Mex.....	7	8	9	11	Wis.....	7	9	13	13
					N.Y.....	7	8	8	8	Wyo.....	7	8	8	8

¹ Estimated. ² Weighted average, based on net gallons taxed. ³ 8 cents per gallon in Hawaii County; 5 cents elsewhere. ⁴ Trucks or combinations with more than 2 axles pay tax of 2 cents per gallon more. ⁵ .08 cents per gallon is for inspection fee.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

NO. 1060. PUBLIC HIGHWAY DEBT—STATE AND LOCAL GOVERNMENTS: 1960 TO 1983

[In millions of dollars. Long-term obligations. State data are for calendar years; local data for varying fiscal years. Excludes duplicated and interunit obligations. Municipal debt includes other political subdivisions urban in character. See also *Historical Statistics, Colonial Times to 1970*, series Q 136-147]

ITEM	1960	1965	1970	1975	1977	1978	1979	1980	1981	1982, pref.	1983, est.
Total debt issued ¹	1,206	1,070	1,886	2,239	2,230	1,883	1,904	2,111	1,770	2,197	2,170
State.....	680	586	1,305	1,412	1,183	942	941	1,128	965	1,297	1,200
County and local rural.....	180	169	174	222	339	238	279	291	200	275	300
Municipal.....	336	315	407	605	708	703	684	692	605	625	670
Total debt redeemed ²	616	855	1,252	1,492	1,648	1,593	1,751	1,711	2,311	1,838	1,866
State.....	300	459	782	906	960	954	990	1,022	1,579	1,095	1,081
County and local rural.....	98	123	152	168	178	170	177	210	200	250	255
Municipal.....	220	273	318	418	510	469	614	479	502	523	530
Total debt outstanding	13,166	15,316	19,107	23,801	25,037	25,327	25,480	25,880	25,339	25,898	26,002
State.....	9,384	10,905	13,903	17,422	18,187	18,175	18,156	18,262	17,648	17,680	17,999
County and local rural.....	1,280	1,363	1,685	1,822	2,007	2,075	2,177	2,258	2,228	2,253	2,288
Municipal.....	2,502	3,048	3,519	4,557	4,843	5,077	5,147	5,360	5,463	5,568	5,705

¹ Excludes refunding issues.

² Excludes redemptions by refunding.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

NO. 1061. MOTOR VEHICLES—SUMMARY: 1970 TO 1982

ITEM	Unit	1970	1975	1976	1977	1978	1979	1980	1981	1982
SALES, EXPORTS, IMPORTS, AND SCRAPPAGE										
Passenger car factory sales.....	1,000.....	6,547	6,713	8,500	9,201	9,165	8,419	6,400	6,255	5,049
Passenger car (new), retail sales ¹	1,000.....	8,405	8,640	10,110	11,185	11,312	10,671	8,979	8,536	7,981
Domestic ²	1,000.....	7,116	7,050	8,607	9,104	9,308	8,341	6,581	6,209	5,759
Subcompact ³	1,000.....		700	632	953	1,191	1,571	1,604	1,630	1,489
Compact ⁴	1,000.....	1,338	2,336	2,804	2,384	2,391	2,130	1,659	1,568	1,250
Standard ⁵	1,000.....		1,956	2,394	2,769	2,647	2,147	1,358	1,250	1,377
Intermediate ⁶	1,000.....	5,778	2,058	2,778	3,018	3,079	2,393	1,857	1,757	1,641
Imports ⁷	1,000.....	1,285	1,587	1,498	2,076	2,000	2,329	2,398	2,927	2,222
Passenger cars (new), exported ¹⁰	1,000.....	285	640	680	697	706	793	617	548	379
Passenger cars (new), imported ¹⁰	1,000.....	2,013	2,075	2,537	2,791	3,025	3,006	3,248	2,999	3,067
Canada.....	1,000.....	693	734	826	850	833	677	595	564	703
Germany, Federal Republic of.....	1,000.....	675	370	350	424	416	496	471	376	338
Japan.....	1,000.....	381	696	1,129	1,342	1,563	1,617	1,992	1,912	1,823
Truck and bus factory sales.....	1,000.....	1,692	2,272	2,979	3,441	3,706	3,037	1,667	1,701	1,906
Truck and bus retail sales ⁷	1,000.....	1,746	2,351	3,044	3,486	3,914	3,236	2,232	1,972	2,248
Light duty (up to 14,000 GVW) ⁸	1,000.....	(NA)	2,076	2,783	3,145	3,547	2,861	1,964	1,747	2,064
Med. duty (14,001-26,000 GVW) ⁸	1,000.....	(NA)	169	182	172	164	152	82	74	46
Heavy duty (over 26,000 GVW) ⁸	1,000.....	126	106	119	169	203	223	176	152	138
Imports, new passenger cars ¹	Mill. dol.....	3,719	7,483	9,939	11,077	14,072	14,852	16,935	17,939	20,397
Trucks and buses, new ¹	Mill. dol.....	381	620	834	1,258	2,146	1,841	1,985	4,217	4,453
Exports ¹	Mill. dol.....	3,871	10,658	12,046	12,544	14,548	16,580	16,015	18,121	16,039
Passenger cars (new) ⁹	Mill. dol.....	822	2,852	3,228	3,568	3,623	3,462	3,932	3,928	2,867
Trucks and buses (new) ⁹	Mill. dol.....	636	2,305	2,141	2,098	2,752	3,267	2,977	3,247	2,642
Parts and accessories ¹⁰	Mill. dol.....	2,413	5,501	6,678	6,877	8,173	6,861	9,106	10,946	10,530
Vehicles retired from use ¹¹	1,000.....	8,298	6,576	7,926	9,902	9,333	11,228	10,137	9,061	8,380
Passenger cars.....	1,000.....	7,461	5,669	6,829	8,234	7,907	9,312	8,405	7,542	6,921
Trucks and buses.....	1,000.....	837	908	1,097	1,668	1,426	1,916	1,732	1,519	1,459
Average age of cars in use.....	Years.....	5.55	5.99	6.16	6.23	6.32	6.41	6.59	6.87	7.15
Average age of trucks in use.....	Years.....	7.33	6.94	6.97	6.93	6.86	6.89	7.13	7.45	7.81
Motorcycle registrations, new ¹²	1,000.....	751	747	783	849	797	861	838	794	689
Motorcycle (new) retail sales ¹³	1,000.....	1,010	940	1,050	1,080	976	1,085	1,065	1,045	930
Motorcycle imports, total ¹⁴	1,000.....	1,091	948	659	860	835	887	1,120	1,057	917
Value ¹⁵	Mill. dol.....	308	713	467	588	797	870	1,142	1,314	1,110
Vehicle drivers licenses.....	Million.....	112	130	134	138	141	143	146	148	149
Percent male.....	Percent.....	56.8	54.3	54.1	53.9	53.7	53.5	53.2	53.0	52.8
Percent under 25 years old.....	Percent.....	22.1	22.6	22.4	22.1	21.9	21.8	21.5	20.7	20.7
TIRES AND BATTERIES SHIPMENTS										
Tires, passenger car, total ¹⁶	Million.....	168.6	167.0	177.0	189.6	193.9	174.0	145.9	165.3	167.5
Radials.....	Million.....	2.9	61.5	69.0	91.6	89.5	90.9	83.5	108.6	115.9
Replacement.....	Million.....	129.6	122.5	122.9	129.3	135.2	121.9	106.9	125.3	130.5
Tires, truck and bus, total ¹⁶	Million.....	25.7	27.3	31.6	37.2	42.7	39.8	31.3	35.6	33.8
Radials.....	Million.....	8	1.2	1.8	3.1	4.1	3.8	9.2	10.4	10.4
Replacement.....	Million.....	16.7	19.8	22.3	25.9	30.0	28.9	24.4	28.5	28.1
Batteries, total ¹⁷	Million.....	46.9	52.9	64.1	70.7	73.2	69.3	61.6	65.5	64.6
Replacement automobile batteries.....	Million.....	37.9	39.3	49.2	54.6	56.4	53.7	50.1	53.6	54.2
SPECIAL MOTOR VEHICLE TAXES¹⁸										
Federal excise.....	Bil. dol.....	6.8	5.6	6.0	6.5	7.0	7.1	6.4	6.5	6.6
State motor vehicle and carrier receipts.....	Bil. dol.....	3.8	5.1	6.1	6.4	6.9	7.4	7.6	8.1	198.7
State motor fuel, net.....	Bil. dol.....	6.5	8.4	8.9	9.3	9.7	9.8	9.6	10.0	10.6
MOTOR VEHICLE REGISTRATIONS										
All vehicles, ²⁰ world.....	Million.....	246.5	326.1	341.7	362.6	380.0	396.0	411.1	427.4	(NA)
United States.....	Million.....	109.4	132.9	138.5	143.8	148.8	154.1	155.9	158.5	(NA)
Other North and Central America.....	Million.....	11.3	15.7	17.0	18.2	19.0	19.0	19.6	23.1	(NA)
South America.....	Million.....	8.1	13.0	13.0	15.0	16.7	17.3	18.8	19.5	(NA)
Europe, non-communist area.....	Million.....	74.3	96.6	103.0	110.6	111.0	115.0	116.3	120.1	(NA)
Europe, communist area.....	Million.....	10.4	16.6	15.0	16.0	22.5	23.7	29.2	31.9	(NA)
Africa.....	Million.....	4.5	6.6	6.9	7.3	7.6	8.6	9.5	9.7	(NA)
Asia, non-communist area.....	Million.....	22.9	36.2	39.1	42.7	45.3	48.5	51.4	54.2	(NA)
Asia, communist area.....	Million.....	5	7	7	7	7	9	9	9	(NA)
Oceania.....	Million.....	6.0	7.8	8.0	8.3	8.5	8.8	9.5	9.4	(NA)

NA Not available. ¹ Based on data from U.S. Dept. of Commerce. ² Includes domestic models produced in Canada.

³ Source: Board of Governors of the Federal Reserve System, unpublished data. Represents total auto sales data from *Ward's Automotive Reports*. Criteria by which each year's car models are grouped into the major size categories vary among those collecting data. Data shown here follow *Automotive News* classifications. Beginning 1978 cars produced in U.S. by foreign manufacturer are included in subcompact. ⁴ Excludes domestic models produced in Canada. ⁵ 1970-1977, covers assembled motor vehicles only. Beginning 1978, includes chassis. ⁶ Includes other countries, not shown separately. ⁷ Excludes motorcoaches and imports from foreign manufacturers. Beginning 1975, includes imports sold by franchised dealers of U.S. manufacturers.

⁸ Gross vehicle weight (fully loaded vehicle). ⁹ Covers assembled and unassembled vehicles. ¹⁰ Includes rubber tires and tubes and used vehicles. ¹¹ For years ending June 30, represents vehicles falling to re-register. ¹² Source: R. L. Polk & Company, Detroit, Mich., *New Motorcycle Registrations by States*. Excludes Oklahoma. Reproduction prohibited without Polk permission.

¹³ Estimates by Motorcycle Industry Council Inc., Newport Beach, Calif. Includes all-terrain vehicles. Excludes mopeds/motorized bicycles. ¹⁴ Source: Motorcycle Industry Council Inc., Newport Beach, Calif. Data from U.S. Dept. of Commerce. Excludes mopeds/motorized bicycles and all-terrain vehicles. ¹⁵ Durable value for customs purposes prior to 1980 thereafter, C.I.F. value. ¹⁶ Includes original equipment. Also includes exports, not shown separately. Source: The Rubber Manufacturers Association, Inc., Washington, D.C. *RMA Monthly Tire Report*. ¹⁷ Source: Battery Council International, Chicago, Ill.

¹⁸ Special taxes on motor-vehicle users. Excludes income and property taxes on establishments engaged in the production, sale, and repairing of motor vehicles and their parts; and on truck operating companies. Source: U.S. Federal Highway Administration, *Highway Statistics*, annual, and *Estimates of State Highway-User Tax Receipts*, annual. ¹⁹ Estimated.

²⁰ Cars, trucks, and buses. Source: 1970-1975, U.S. Bureau of Domestic Business Development, *World Motor Vehicle Production and Registration*, annual.

Source: Except as noted, Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, Mich., *Motor Vehicle Facts and Figures*, annual, and *World Motor Vehicle Data*, annual.

No. 1062. MOTOR-VEHICLE REGISTRATIONS, 1960 TO 1982, AND DRIVERS LICENSES, 1981, BY STATES

[In thousands, except as indicated. Motor vehicle registrations cover publicly, privately, and commercially owned vehicles. For uniformity, figures have been adjusted to a calendar-year basis as registration years in States differ; figures represent net numbers where possible, excluding re-registrations and nonresident registrations]

STATE	AUTOMOBILES, TRUCKS, AND BUSES ¹								Motor-cycles (incl. offi- cial) ¹ 1982, est.	DRIVERS LICENSES, 1981		
	1960, total	1970, total	1975, total	1980, total	1981, total	1982, est.				Total ^a	Percent—	
						Total	Automobiles (incl. cabs)				Male	Under 25 yr. old
							Total	Per 1,000 population ²				
U.S....	73,858	108,418	132,949	155,796	158,457	160,443	124,821	539	6,021	147,075	* 53.0	* 20.2
Ala.....	1,282	1,966	2,493	2,938	3,011	3,134	2,248	570	80	2,316	52.0	21.2
Alaska.....	81	139	226	262	288	304	188	429	10	228	56.9	23.2
Ariz.....	624	1,093	1,459	1,917	2,102	2,238	1,603	560	106	2,020	54.1	21.2
Ark.....	708	1,043	1,283	1,574	1,661	1,713	1,122	490	31	1,532	51.8	15.5
Calif.....	7,799	11,901	13,891	16,873	16,791	16,843	13,362	540	750	16,046	53.0	19.8
Colo.....	924	1,442	1,925	2,342	2,479	2,531	1,863	612	127	2,104	51.7	22.0
Conn.....	1,107	1,733	1,949	2,147	2,107	2,088	1,945	617	74	2,198	51.9	19.8
Del.....	192	312	351	397	405	410	330	546	12	429	51.7	21.2
D.C.....	206	257	255	268	273	284	264	418	7	343	(NA)	(NA)
Fla.....	2,967	4,120	5,395	7,614	7,974	8,119	6,586	632	221	7,641	52.0	18.7
Ga.....	1,512	2,584	3,211	3,818	3,852	3,882	2,968	526	117	3,518	51.9	21.7
Hawaii.....	231	405	462	570	581	592	534	537	8	535	55.1	19.1
Idaho.....	375	488	647	834	857	869	533	552	62	643	52.5	24.4
Ill.....	3,776	5,238	6,344	7,477	7,597	7,702	6,424	561	310	6,863	53.1	21.7
Ind.....	2,046	2,818	3,315	3,826	3,891	3,979	2,885	527	185	3,495	49.9	21.4
Iowa.....	1,325	1,790	2,099	2,329	2,357	2,368	1,713	590	247	2,122	(NA)	(NA)
Kans.....	1,163	1,548	1,805	2,007	2,023	2,036	1,386	576	126	1,680	51.0	22.0
Ky.....	1,198	1,763	2,245	2,593	2,593	2,600	1,805	492	66	2,147	53.4	21.5
La.....	1,177	1,742	2,188	2,779	2,822	2,859	1,991	456	82	2,406	53.4	23.0
Maine.....	374	510	648	724	729	717	522	461	55	753	51.7	19.5
Md.....	1,155	1,872	2,423	2,803	2,852	2,896	2,413	566	83	2,723	52.1	20.2
Mass.....	1,803	2,575	3,107	3,749	3,768	3,768	3,298	570	126	3,593	51.8	19.7
Mich.....	3,306	4,569	5,545	6,488	6,166	6,088	4,945	543	245	6,450	52.2	24.4
Minn.....	1,592	2,207	2,525	3,091	3,152	3,185	2,338	566	193	2,383	51.8	20.9
Miss.....	723	1,117	1,377	1,577	1,576	1,584	1,200	470	30	1,699	52.3	22.7
Mo.....	1,720	2,408	2,866	3,271	3,334	3,376	2,488	503	107	3,281	51.8	21.6
Mont.....	373	485	611	680	736	757	431	538	40	484	56.0	22.3
Nebr.....	734	974	1,165	1,254	1,211	1,194	789	497	51	1,088	51.9	22.8
Nev.....	175	355	464	655	697	728	529	589	22	642	54.0	20.2
N.H.....	256	390	485	704	761	773	661	695	60	665	52.1	20.1
N.J.....	2,401	3,686	4,155	4,761	4,697	4,719	4,176	561	113	5,155	52.8	18.0
N. Mex.....	426	637	827	1,068	1,048	1,048	687	506	53	914	52.0	21.9
N.Y.....	5,067	6,718	7,591	8,002	8,120	8,187	7,153	405	194	9,249	54.9	17.1
N.C.....	1,720	2,828	3,690	4,532	4,546	4,579	3,447	573	116	3,831	51.8	21.9
N. Dak.....	345	428	551	627	641	652	381	569	32	425	52.6	24.0
Ohio.....	4,087	5,974	7,179	7,771	7,737	7,721	6,389	592	274	6,337	60.4	19.7
Okla.....	1,184	1,713	2,113	2,583	2,614	2,607	1,790	563	140	1,953	50.6	21.1
Oreg.....	919	1,369	1,628	2,081	2,085	2,092	1,551	586	88	1,964	53.0	17.9
Pa.....	4,287	5,818	7,659	9,626	7,010	7,117	6,017	507	235	7,251	53.8	18.9
R.I.....	341	488	563	623	596	604	527	550	25	593	51.8	19.7
S.C.....	879	1,360	1,772	1,996	1,970	1,983	1,504	470	44	1,948	52.0	21.7
S. Dak.....	354	426	521	601	612	614	379	548	39	476	52.1	24.1
Tenn.....	1,307	2,050	2,727	3,271	3,533	3,570	2,911	626	84	2,838	52.0	20.3
Tex.....	4,457	6,693	8,396	10,475	11,123	11,433	8,002	524	353	9,674	52.7	21.4
Utah.....	417	664	845	992	1,033	1,047	714	459	70	889	49.8	25.0
Vt.....	152	229	287	347	345	356	275	533	22	349	51.9	19.8
Va.....	1,426	2,263	3,251	3,626	3,844	3,924	3,297	600	86	3,570	50.9	21.3
Wash.....	1,377	2,102	2,540	3,225	3,330	3,342	2,405	567	147	2,733	52.7	19.3
W. Va.....	601	801	966	1,320	1,352	1,380	985	506	39	1,488	56.5	22.2
Wis.....	1,600	2,182	2,591	2,941	3,098	3,127	2,563	538	211	3,027	52.1	22.0
Wyo.....	207	247	337	467	487	504	305	608	23	363	54.7	24.5

NA Not available. ¹ Excludes vehicles owned by military services. ² Based on resident population as of July 1.

³ Estimated from data reported by States for current and previous years; allowance has been made for deaths, emigration, or revocation by some States. ⁴ Excludes District of Columbia and Iowa.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual, and *Drivers Licenses*, annual.

No. 1063. MOTOR VEHICLES—REGISTRATIONS, FACTORY SALES, AND RETAIL SALES: 1950 TO 1982

[Minus sign (–) indicates decrease. For definition of average annual percent change, see Guide to Tabular Presentation. See also *Historical Statistics, Colonial Times to 1970*, series Q 148–155]

YEAR	REGISTRATIONS ¹ (mil.)			Motor- cycle registrations 1 (1,000)	FACTORY SALES (1,000)			PASSENGER CARS RETAIL SALES (1,000)			AVERAGE ANNUAL PERCENT CHANGE ³	
	Total cars, trucks, buses	Pas- senger cars and taxis	Trucks and buses		Total cars, trucks, buses	Pas- senger cars	Trucks and buses ²	Total	Do- mestic	Im- ports	Registra- tions ⁴	Retail sales
1950.....	49.2	40.4	8.8	454	8,003	6,666	1,337	(NA)	(NA)	(NA)	⁵ 7.4	(NA)
1955.....	62.7	52.1	10.6	412	9,169	7,920	1,249	7,465	7,408	58	5.0	(NA)
1960.....	73.9	61.7	12.2	574	7,869	6,675	1,194	6,641	6,142	499	3.3	–2.3
1965.....	90.4	75.3	15.1	1,392	11,057	9,306	1,752	9,332	8,763	569	4.1	7.0
1967.....	96.9	80.4	16.5	1,953	8,978	7,437	1,539	8,337	7,568	769	3.5	–5.8
1968.....	100.9	83.6	17.3	2,089	10,718	8,822	1,896	9,656	8,625	1,031	4.1	15.5
1969.....	105.1	86.9	18.2	2,316	10,147	8,224	1,923	9,583	8,464	1,118	4.2	–.8
1970.....	108.4	89.2	19.2	2,824	8,239	6,547	1,692	8,055	7,119	1,285	3.2	–12.3
1971.....	113.0	92.7	20.3	3,344	10,638	8,585	2,053	10,250	8,681	1,568	4.2	22.0
1972.....	118.8	97.1	21.7	3,760	11,271	8,824	2,447	10,950	9,327	1,623	5.1	6.8
1973.....	125.7	102.0	23.7	4,371	12,637	9,658	2,980	11,439	9,676	1,763	5.8	4.5
1974.....	129.9	104.8	25.1	4,966	10,059	7,331	2,727	8,867	7,454	1,413	3.4	–22.5
1975.....	132.9	106.7	26.2	4,964	8,985	6,713	2,272	8,640	7,053	1,587	2.3	–2.6
1976.....	138.5	110.4	28.2	4,999	11,480	8,500	2,979	10,110	8,611	1,498	4.2	17.0
1977.....	142.4	112.3	30.1	4,879	12,642	9,201	3,441	11,185	9,109	2,076	2.8	10.6
1978.....	148.4	116.6	31.8	4,867	12,871	9,165	3,706	11,312	9,312	2,000	4.2	1.1
1979.....	151.8	118.4	33.4	5,422	11,456	8,419	3,037	10,671	8,341	2,329	2.3	–5.7
1980.....	155.8	121.6	34.1	5,694	8,067	6,400	1,667	8,979	6,581	2,398	2.6	–15.9
1981.....	158.5	123.5	35.0	5,831	7,958	6,255	1,701	8,538	6,209	2,327	1.7	–4.9
1982.....	⁶ 160.4	⁶ 124.8	⁶ 35.6	⁶ 6,021	6,955	5,049	1,906	7,981	5,759	2,222	1.2	–6.5

NA Not available. ¹ Excludes Alaska and Hawaii prior to 1960. Includes publicly owned vehicles. Excludes military services' vehicles. ² Includes standard equipment. ³ From prior year shown. ⁴ Excludes motorcycles. ⁵ Change from 1945. ⁶ Estimate.

Source: Registrations—U.S. Federal Highway Administration, *Highway Statistics*, annual; sales—Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, Mich., *Motor Vehicle Facts and Figures*, annual.

No. 1064. MOTOR VEHICLE ACCIDENTS—NUMBER AND DEATHS: 1960 TO 1982

[1982 data preliminary. See also *Historical Statistics, Colonial Times to 1970*, series Q 208 and Q 224–232]

ITEM	Unit	1960 ¹	1965	1970	1972 ¹	1975	1977	1978	1979	1980	1981	1982
Motor vehicle accidents ²	Million.....	10.4	13.2	16.0	17.0	16.5	17.6	18.3	18.1	17.9	18.0	(NA)
Cars.....	Million.....	16.0	20.3	23.5	24.5	22.5	23.9	24.6	22.9	22.8	22.9	(NA)
Trucks.....	Million.....	2.0	2.6	3.2	3.5	3.8	4.7	5.5	5.4	5.5	5.6	(NA)
Motorcycles.....	1,000.....	100	235	305	343	372	460	480	480	560	540	(NA)
Motor vehicle deaths within 1 yr. ³ ...	1,000.....	38.1	49.2	54.6	56.3	45.9	49.5	52.4	53.5	53.3	51.5	46.3
Noncollision accidents ⁴	1,000.....	11.9	14.9	15.4	15.8	12.7	13.7	14.5	14.8	15.1	14.7	13.1
Collision accidents:												
With other motor vehicles.....	1,000.....	14.8	20.8	23.2	23.9	19.5	21.2	22.4	23.1	22.0	21.5	19.2
With pedestrians.....	1,000.....	7.9	8.9	9.9	10.3	8.4	9.1	9.6	9.8	9.7	8.1	8.7
With fixed objects ⁵	1,000.....	1.7	2.2	3.8	3.9	3.1	3.4	3.6	3.7	4.4	4.1	3.5
Deaths within 30 days ⁶	1,000.....	36.4	47.1	52.6	54.6	44.5	47.9	50.3	51.1	51.1	49.3	43.7
Vehicle occupants.....	1,000.....	27.9	36.8	40.6	41.4	32.8	35.1	37.1	37.2	36.8	35.5	31.2
Pedestrians.....	1,000.....	7.2	8.0	9.0	9.2	7.5	7.7	7.8	8.1	8.1	7.8	7.3
Motorcyclists ⁷	1,000.....	.8	1.7	2.3	3.0	3.2	4.1	4.6	4.9	5.1	4.9	4.4
Bicyclists.....	1,000.....	.5	.7	.8	1.0	1.0	.9	.9	.9	1.0	.9	.9
Traffic death rates: ⁸ ⁹												
Per 100,000 resident population.....	Rate.....	20.2	24.3	25.8	26.2	20.7	21.3	22.7	22.8	22.6	21.5	19.0
Per 100,000 registered vehicles.....	Rate.....	48.9	51.3	47.3	44.5	32.3	32.5	32.8	32.0	31.6	30.0	26.4
Per 100 million vehicle miles.....	Rate.....	5.1	5.3	4.7	4.3	3.4	3.3	3.3	3.3	3.3	3.2	2.8
Per 100,000 licensed drivers.....	Rate.....	41.7	47.8	47.2	46.1	34.3	34.7	35.7	35.7	35.2	34.1	29.5
Motor vehicle accidents ⁸	Million.....	11.4	14.7	22.1	24.9	24.9	26.7	27.7	26.7	24.1	26.3	(NA)
Injuries ⁸	1,000.....	3,078	3,982	4,983	5,190	4,978	5,575	5,798	5,681	5,230	5,019	(NA)
Economic loss ⁸ ⁹	Bl. dol.....	10.2	14.2	23.5	28.6	35.1	46.2	52.6	56.4	57.1	58.7	(NA)

NA Not available. ¹ Represents peak year for deaths from motor vehicle accidents. ² Covers only accidents occurring on the road. ³ Deaths that occur within one year of accident. Includes collision categories not shown separately. ⁴ Beginning 1970, not comparable with previous years due to classification change. ⁵ Within 30 days of accident. Source: U.S. National Highway Traffic Safety Administration, unpublished data from Fatal Accident Reporting System. ⁶ Includes motor scooters and motorized bicycles (mopeds). ⁷ Based on 30-day definition of traffic deaths. ⁸ Source: Insurance Information Institute, New York, N.Y., *Insurance Facts*. Estimates based on official reports from a representative cross-section of States. Includes all motor vehicle accidents on and off the road and all injuries regardless of length of disability. ⁹ Wage loss; legal, medical, hospital, and funeral expenses; insurance administrative costs; and property damage.

Source: Except as noted, National Safety Council, Chicago, Ill., *Accident Facts*, annual. (Copyright.)

NO. 1065. DEATHS FROM MOTOR-VEHICLE ACCIDENTS—BY STATES: 1970 TO 1980

[Data differ from table 1064 because data are based on date of death, not date of accident. Data reflect State where death occurred. Includes deaths of nonresidents of U.S. Deaths for 1979-80 classified according to the ninth revision of the *International Classification of Diseases*, for earlier years classified according to the revision in use at the time; see text, p. 61. Data based on Vital Registration System, see Appendix III]

STATE	1970	1972 ¹	1975	1978	1979	1980	STATE	1970	1972 ¹	1975	1978	1979	1980
U.S.....	54,845	56,528	46,032	52,653	53,786	53,476	S.A.....	9,796	10,800	8,358	8,943	9,379	9,767
Regions:							Del.....	158	130	129	140	127	164
N. East.....	8,850	8,992	7,431	7,847	8,240	8,255	Md.....	809	852	656	752	722	822
N. Central.....	14,629	14,870	11,293	12,840	12,693	12,244	D.C.....	140	100	91	68	71	79
South.....	20,792	21,964	18,029	20,102	20,582	21,014	Va.....	1,251	1,256	1,069	1,109	1,070	1,111
West.....	10,574	10,902	9,279	11,869	12,271	11,983	W. Va.....	561	578	499	507	579	583
N.E.	2,095	2,180	1,953	2,031	2,285	2,246	N.C.....	1,801	2,026	1,560	1,568	1,580	1,588
Maine.....	288	252	235	246	256	264	S.C.....	1,070	1,148	837	919	927	895
N.H.....	162	172	155	166	182	192	Ga.....	1,825	1,940	1,420	1,548	1,608	1,558
Vt.....	116	126	124	110	154	131	Fla.....	2,181	2,570	2,067	2,332	2,695	2,967
Mass.....	918	1,042	895	918	982	933	E.S.C.	4,850	4,972	3,881	4,465	4,240	3,995
R.I.....	143	144	140	131	146	142	Ky.....	1,081	1,114	885	908	942	865
Conn.....	448	444	404	460	555	584	Tenn.....	1,525	1,526	1,280	1,387	1,366	1,280
M.A.	6,755	6,812	5,478	5,816	5,955	6,009	Ala.....	1,287	1,356	1,087	1,295	1,131	1,054
N.Y.....	3,117	3,140	2,277	2,549	2,500	2,717	Miss.....	947	976	629	875	801	796
N.J.....	1,289	1,352	1,099	1,148	1,173	1,130	W.S.C.	6,146	6,392	5,790	6,894	6,983	7,252
Pa.....	2,349	2,320	2,102	2,119	2,282	2,162	Ark.....	595	750	577	585	550	507
E.N.C.	9,623	9,514	7,361	8,569	8,593	8,000	La.....	1,194	1,136	993	1,185	1,258	1,281
Ohio.....	2,488	2,336	1,852	2,021	2,244	1,976	Okl.....	787	792	748	948	942	1,006
Ind.....	1,587	1,578	1,139	1,312	1,351	1,213	Tex.....	3,570	3,714	3,472	3,976	4,213	4,378
Ill.....	2,267	2,216	1,816	2,172	2,053	1,985	Mt.	3,549	3,764	3,206	4,050	4,211	4,071
Mich.....	2,172	2,236	1,811	2,083	1,899	1,817	Mont.....	340	408	294	278	346	339
Wis.....	1,109	1,148	943	981	1,036	1,009	Idaho.....	320	324	291	331	353	345
W.N.C.	5,006	5,156	3,932	4,271	4,110	4,244	Wyo.....	210	196	210	249	260	246
Minn.....	1,028	1,052	798	993	914	900	Colo.....	697	746	621	735	751	783
Iowa.....	946	904	714	661	683	662	N. Mex.....	568	588	556	678	668	617
Mo.....	1,479	1,500	1,105	1,271	1,236	1,239	Ariz.....	782	858	713	1,044	1,076	983
N. Dak.....	194	206	183	205	157	184	Utah.....	354	354	285	403	352	370
S. Dak.....	240	312	216	204	230	238	Nev.....	278	290	236	332	405	388
Nebr.....	435	504	385	357	341	406	Pac.	7,025	7,138	6,073	7,819	8,060	7,892
Kans.....	684	678	531	580	549	615	Wash.....	902	836	804	1,052	1,113	1,048
							Oreg.....	739	774	592	754	720	698
							Calif.....	5,114	5,300	4,414	5,680	5,917	5,880
							Alaska.....	64	120	119	87	91	91
							Hawaii.....	163	184	153	214	223	195

¹ Represents peak year for deaths from motor vehicle accidents.

Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual, and unpublished data.

NO. 1066. ESTIMATED LICENSED DRIVERS AND DRIVERS INVOLVED IN FATAL ACCIDENTS, BY AGE-GROUP OF DRIVER: 1982

ITEM	Unit	Total	Under 20 years old	20-24 years old	25-34 years old	35-44 years old	45-54 years old	55-64 years old	65 years old and over
Licensed drivers.....	1,000	144,610	11,003	18,722	36,212	25,427	19,831	17,901	15,514
Percent distribution.....	Percent	100.0	7.6	12.9	25.0	17.6	13.7	12.8	10.7
Drivers involved in fatal accidents.....	1,000	55.8	8.0	11.6	15.0	8.1	5.1	4.0	4.0
Percent distribution.....	Percent	100.0	14.4	20.8	26.9	14.5	9.1	7.2	7.1

Source: U.S. Federal Highway Administration, *Drivers Licenses*, annual, and U.S. National Highway Traffic Safety Administration, unpublished data from Fatal Accident Reporting System.

NO. 1067. MOTOR VEHICLE SAFETY DEFECT RECALLS, BY DOMESTIC AND FOREIGN MANUFACTURERS: 1970 TO 1982

[Covers manufacturers reporting to U.S. National Highway Traffic Safety Administration under section 151 of National Traffic and Motor Vehicle Safety Act of 1966, as amended]

MANUFACTURER	Unit	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Motor vehicles:												
Total recall campaigns ¹	Number.....	154	251	247	217	209	246	271	275	167	156	135
Domestic.....	Number.....	100	208	208	190	169	195	199	218	129	128	107
Foreign.....	Number.....	54	43	39	27	40	51	72	57	38	28	28
Total vehicles recalled.....	1,000.....	1,240	7,000	2,877	2,109	3,492	12,923	9,063	8,919	4,863	9,405	1,914
Domestic.....	1,000.....	738	6,667	2,345	1,829	3,019	10,693	7,921	6,997	3,939	7,379	1,401
Vehicles recalled by 4 leading auto manufacturers.....	1,000.....	563	6,477	2,194	1,602	2,854	10,331	7,870	6,989	3,730	7,247	1,324
Foreign.....	1,000.....	502	3,333	531	280	474	2,230	1,141	1,922	924	2,026	513
Motor vehicle tires:												
Recall campaigns ¹	Number.....	11	20	26	22	28	35	31	42	24	25	17
Tires recalled.....	1,000.....	160	132	1,094	72	464	471	14,686	235	7,070	125	131

¹ A recall campaign is the notification to the Secretary of the U.S. Dept. of Transportation and to owners, purchasers, and dealers, of a motor vehicle safety defect.

Source: U.S. National Highway Traffic Safety Administration, *Motor Vehicle Safety Defect Recall Campaigns*, annual.

NO. 1068. AUTOMOBILE OUTPUT—PRODUCTION AND VALUE: 1965 TO 1982

ITEM	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
New auto sales, total (mil. units)	9.3	8.4	11.4	8.9	8.6	10.1	11.2	11.3	10.7	9.0	8.5	8.0
Domestic sales (mil. units).....	8.8	7.1	9.7	7.5	7.1	8.6	9.1	9.3	8.8	6.6	6.2	5.8
Sales of imports (mil. units).....	6.1	1.3	1.8	1.4	1.6	1.5	2.1	2.0	2.3	2.4	2.3	2.2
Percent of total.....	6.1	15.3	15.5	16.1	18.6	15.0	18.8	17.9	22.1	26.7	27.3	27.6
VALUE IN CURRENT DOLLARS (bil.)												
Gross auto output.....	31.2	28.7	46.2	39.2	40.7	55.9	65.1	69.6	68.0	60.8	70.4	66.6
As percent of GNP ¹	4.5	2.9	3.5	2.7	2.6	3.3	3.4	3.2	2.8	2.3	2.4	2.2
Final sales.....	30.5	29.8	45.4	38.1	42.3	54.6	64.0	68.8	69.1	61.5	69.9	69.9
Personal consumption expenditures.....	25.3	27.3	41.2	34.8	38.2	50.0	57.5	63.1	64.8	61.8	69.3	73.9
New autos.....	21.4	21.9	33.9	27.0	29.3	38.1	44.3	48.2	49.1	45.3	50.6	52.9
Net purchases of used autos.....	3.9	5.3	7.3	7.8	8.9	11.9	13.2	14.9	15.7	15.5	18.8	21.0
Producers' durable equipment.....	5.1	4.9	8.3	7.6	7.6	8.6	12.6	14.7	13.4	11.5	13.3	12.4
New autos.....	6.6	7.5	11.6	11.4	12.5	15.4	19.1	22.2	22.5	21.0	24.6	24.9
Net purchases of used autos ²	-1.5	-2.6	-3.3	-3.8	-4.9	-5.9	-6.5	-7.5	-9.1	-9.5	-11.3	-12.6
Net exports.....	-3	-2.9	-4.7	-5.0	-4.2	-5.7	-7.0	-10.0	-10.1	-12.8	-13.8	-17.4
Exports.....	4	3	1.8	2.3	2.9	3.3	3.6	3.7	4.7	4.0	4.0	2.9
Imports.....	7	3.7	6.5	7.3	7.1	8.9	10.7	13.7	14.8	16.8	17.8	20.3
Govt. purchases of goods and services.....	4	5	6	7	7	7	1.0	1.0	1.0	1.0	1.0	1.0
Change in business inventories ³	8	-1.2	.8	1.1	-1.5	1.3	1.1	.6	-1.1	-.7	.5	-3.3
Domestic output ⁴	28.3	23.8	40.0	32.6	33.7	46.2	54.8	58.2	57.9	49.4	56.0	50.6
Sales of imports ⁵	1.3	5.8	9.0	8.9	10.4	11.4	14.9	16.4	19.3	21.8	24.8	27.9
VALUE IN CONSTANT (1972) DOLLARS (bil.)												
Gross auto output.....	35.7	29.8	46.4	37.1	35.7	45.3	50.7	50.3	47.0	39.4	42.6	38.5
As percent of GNP ¹	3.8	2.7	3.7	3.0	2.9	3.5	3.7	3.5	3.2	2.7	2.8	2.6
Final sales.....	34.8	31.0	45.5	36.2	37.0	44.4	49.7	50.1	47.5	39.9	42.1	40.3
Personal consumption expenditures.....	29.2	28.8	40.7	32.2	32.0	38.7	42.1	42.9	41.0	36.6	37.2	37.1
New autos.....	23.5	22.7	33.9	25.5	25.4	31.1	34.4	34.8	32.9	28.7	29.6	29.8
Net purchases of used autos.....	5.7	6.2	6.8	6.7	6.6	7.5	7.7	8.0	8.1	7.8	7.6	7.3
Producers' durable equipment.....	5.6	5.0	8.5	7.3	7.2	8.7	10.9	11.6	10.1	8.0	9.5	9.3
New autos.....	7.3	7.8	11.6	10.7	10.9	12.6	14.8	16.0	15.1	13.0	14.4	14.0
Net purchases of used autos ²	-1.7	-2.8	-3.1	-3.4	-3.7	-3.9	-3.9	-4.5	-5.0	-5.0	-4.9	-4.7
Net exports.....	-4	-3.4	-4.3	-4.0	-2.8	-3.6	-4.0	-5.1	-4.3	-5.3	-5.3	-6.8
Exports.....	4	3	1.8	2.2	2.5	2.7	2.8	2.7	3.2	2.5	2.3	1.6
Imports.....	9	4.3	6.1	6.2	5.3	6.3	6.9	7.8	7.6	7.9	7.6	8.4
Govt. purchases of goods and services.....	5	5	6	6	6	6	8	8	7	7	7	7
Change in business inventories ³	9	-1.2	.9	.9	-1.3	.9	1.0	.2	-.5	-.5	.5	-1.8
Domestic output ⁴	31.1	24.6	40.0	30.8	29.2	37.8	42.5	42.1	38.9	30.7	32.8	28.5
Sales of imports ⁵	1.4	6.0	9.0	8.4	9.0	9.3	11.6	11.8	12.9	13.5	14.5	15.7

¹ For definition of gross national product (GNP), see text, p. 445. ² Minus sign (-) denotes greater sales than purchases of used autos. ³ New and used autos. Minus sign (-) indicates decline in business inventories. ⁴ Consists of final sales and change in business inventories of new autos produced in the U.S. ⁵ Consists of personal consumption expenditures, producers' durable equipment, and government purchases.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-76*, and *Survey of Current Business*, July 1982 and July 1983.

NO. 1069. CARS AND TRUCKS IN USE, BY AGE: 1965 TO 1982

[As of July 1. Beginning 1980, passenger vans (approx. 1.4 million) were reclassified from passenger cars to trucks. Excludes vehicles for which age was not known]

AGE	NUMBER (mil.)							PERCENT						
	1965	1970	1975	1979	1980	1981	1982	1965	1970	1975	1979	1980	1981	1982
Total cars.....	68.9	80.4	95.2	104.7	104.6	105.8	106.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 3 years.....	21.6	24.4	25.8	28.2	26.5	24.2	21.5	31.3	30.3	27.1	26.9	25.6	22.9	20.1
3-5 years.....	18.0	24.9	27.0	25.2	25.5	28.8	29.9	26.1	31.0	28.3	24.1	24.4	27.2	28.0
6-8 years.....	13.6	18.4	22.0	25.0	25.2	23.0	22.2	19.7	22.9	23.1	23.9	24.1	21.7	20.7
9-11 years.....	9.9	7.7	13.9	14.9	14.6	16.0	17.9	14.3	9.6	14.6	14.3	14.0	15.1	16.7
12 years and over.....	5.9	4.9	6.6	11.3	12.5	13.9	15.4	8.6	6.1	6.9	10.8	11.9	13.1	14.4
Average age.....	5.9	5.6	6.0	6.4	6.6	6.9	7.2	(x)	(x)	(x)	(x)	(x)	(x)	(x)
Total trucks.....	13.1	17.7	24.8	32.6	35.2	36.1	37.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 3 years.....	3.2	4.7	6.9	9.2	8.8	7.3	5.6	24.6	26.5	27.9	28.2	24.9	20.2	15.1
3-5 years.....	2.5	4.3	5.8	7.3	8.1	9.7	10.7	18.9	24.1	23.3	22.3	23.1	26.9	29.0
6-8 years.....	2.0	3.0	4.4	6.2	7.4	7.1	7.1	14.9	16.7	17.9	19.1	21.0	19.7	19.2
9-11 years.....	1.8	1.9	3.2	4.0	4.4	4.9	5.7	14.1	10.5	13.0	12.3	12.5	13.6	15.4
12 years and over.....	3.6	3.9	4.4	5.9	6.5	7.2	7.9	27.6	22.2	17.8	18.1	18.4	19.9	21.2
Average age.....	8.0	7.3	6.9	6.9	7.1	7.5	7.8	(x)	(x)	(x)	(x)	(x)	(x)	(x)

X Not applicable.

Source: R. L. Polk & Co., Detroit, Mich. In Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, Mich., *Motor Vehicle Facts and Figures*, annual. (Copyright; further reproduction prohibited without Polk permission.)

NO. 1070. AUTOMOBILES—FACTORY-INSTALLED EQUIPMENT: 1970 TO 1982

[Refers to model-year production. For certain items, such as air-conditioning, a significant number of units are installed on new vehicles after they leave the factory]

EQUIPMENT	UNITS INSTALLED (mil.)								PERCENT OF CARS PRODUCED							
	1970	1975	1978	1979	1980	1981	1982	1970	1975	1978	1979	1980	1981	1982	1970	1982
Transmission:																
Automatic.....	7.2	6.2	8.6	8.2	6.1	5.6	4.7	91.0	91.6	93.1	90.9	82.2	85.3	85.8		
Manual.....	.7	.6	.6	.8	1.3	1.0	.8	8.9	8.4	6.6	9.0	17.8	14.6	14.2		
V-8.....	6.7	4.9	6.1	5.6	2.3	1.9	1.8	84.2	71.4	65.8	61.7	31.6	29.0	28.9		
6-cylinder engine.....	1.2	1.3	2.2	2.1	2.7	2.3	1.7	15.7	19.6	24.0	23.1	36.0	36.0	31.1		
4-cylinder engine.....	(NA)	.6	.9	1.4	2.4	2.2	2.2	(NA)	9.0	10.2	15.2	32.4	35.0	40.0		
Diesel engine.....	-	-	(2)	.1	.4	.5	.3	-	-	.3	1.5	4.9	7.3	4.9		
Power brakes.....	4.4	5.2	8.1	7.7	6.2	5.6	5.0	56.0	75.8	87.9	85.5	83.1	86.0	90.2		
Power steering.....	6.4	6.1	8.6	8.2	6.2	5.7	4.9	81.2	89.7	92.6	90.8	82.9	87.1	89.7		
Power windows ¹	1.3	1.6	2.8	2.7	1.6	1.7	1.8	16.7	24.1	30.5	29.5	22.3	26.6	32.5		
Air-conditioning.....	4.8	4.9	7.5	7.3	5.4	5.1	4.5	60.9	73.1	80.7	81.0	72.6	78.4	81.8		
Tinted glass ²	5.5	5.5	7.9	8.0	5.9	5.6	4.8	69.5	80.6	85.7	88.6	80.8	85.3	87.4		

- Represents zero. NA Not available. Z Less than 50,000.

¹ Includes station wagon power rear windows.

² Covers windshield and other glass.

Source: Chilton Company, Radnor, Pa., *Annual Statistical Issue, Automotive Industries*. (Copyright.)

NO. 1071. CARS IN OPERATION WITH EMISSION CONTROLS: 1965 TO 1982

[As of July 1. Figures show cars with emission controls whether or not the controls are in operation]

EMISSION CONTROLS	CARS (millions)								PERCENT		
	1965	1971	1975	1978	1979	1980 ¹	1981	1982	1971	1975	1982
Total cars.....	68.9	83.1	95.2	103.0	104.7	104.6	105.8	106.9	100.0	100.0	100.0
No emission controls.....	46.0	12.8	4.0	2.3	1.7	1.4	7.4	6.4	15.4	4.2	6.0
Crankcase control ²	22.9	35.8	21.4	11.0	8.9	7.2			143.1	22.5	
Exhaust and crankcase controls ³	-	27.7	24.6	17.8	14.9	12.1	10.2	8.6	33.3	25.8	8.0
Fuel evaporation and above controls ⁴	-	6.8	18.5	16.3	14.8	13.0	11.5	10.0	8.2	19.4	9.4
Nitrogen oxide and above controls ⁵	-	22.0	21.0	19.9	18.5	17.3	15.8	-	23.1	14.8	
Catalyst and above controls ⁶	-	-	4.7	34.6	44.4	52.3	59.4	66.1	-	4.9	61.8

- Represents zero. ¹ Beginning 1980, passenger vans (approx. 1.4 million) were reclassified from passenger cars to trucks.

² Installed nationwide, starting with 1963 models, to reduce emissions of hydrocarbons. ³ Exhaust controls introduced nationwide on 1968 models to accelerate the reduction of hydrocarbon emissions and emissions of carbon monoxide. ⁴ Begun on 1971 models to eliminate losses from gasoline tanks and carburetors. ⁵ Available on some 1971 and 1972 models and all 1973 and later models to lower emissions of nitrogen oxides. ⁶ Catalyst or equivalent control systems introduced on cars in 1975 to meet tougher emission levels for hydrocarbons and carbon monoxide.

Source: Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, Mich., *Motor Vehicle Facts and Figures*, annual. Computed from R. L. Polk & Co. data.

NO. 1072. RECREATIONAL VEHICLES—NUMBER AND RETAIL VALUE OF SHIPMENTS: 1965 TO 1982

TYPE	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
NUMBER (1,000)													
Total.....	192.8	380.3	583.0	528.8	295.8	339.6	541.1	533.9	526.3	307.7	181.4	239.1	258.0
Motorized homes.....	4.7	30.3	116.8	129.0	68.9	96.6	256.1	280.2	293.6	172.6	99.9	135.2	152.5
Travel trailers.....	76.6	138.0	250.9	212.3	126.3	150.6	189.7	167.9	159.8	90.2	52.0	63.8	65.5
Folding camping trailers.....	67.2	118.1	110.2	97.7	55.2	48.1	53.3	53.9	48.2	31.1	24.5	35.0	34.3
Truck campers.....	44.3	95.9	105.1	89.8	45.4	44.3	42.0	31.9	24.7	13.8	5.0	5.1	5.7
RETAIL VALUE (mil. dol.)													
Total.....	308	1,122	2,365	2,322	1,392	2,320	4,284	5,327	5,683	3,538	1,952	2,775	3,505
Motorized homes.....	34	318	1,011	1,153	624	1,251	2,923	3,876	4,329	2,682	1,381	2,019	2,701
Travel trailers.....	169	445	971	843	567	856	1,132	1,229	1,153	725	485	631	666
Folding camping trailers.....	30	175	166	160	109	101	117	123	116	83	69	105	110
Truck campers.....	75	183	218	167	92	112	112	99	85	48	17	20	28

Source: Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, Mich., *Motor Vehicle Facts and Figures*, annual. Data from Recreation Vehicle Industry Association, *RVs . . . The Family Camping Vehicle, A Year-End Report/1982*.

NO. 1073. MOTOR VEHICLE TRAVEL, BY TYPE OF VEHICLE, AND SPEED: 1960 TO 1981

[Travel in billions of vehicle-miles, except as indicated. Travel estimates based on automatic traffic recorder data. Urban travel includes all travel in municipalities and urbanized areas. All other travel is classed as rural. Speed trend data for 1960-1975 were collected by several State highway agencies, normally during summer months; beginning Oct. 1975 all States have monitored speeds at locations on several highway systems as part of 55 mile per hour Speed Limit Monitoring Program. Minus sign (-) indicates decrease. For definition of average annual percent change, see Guide to Tabular Presentation. See also *Historical Statistics, Colonial Times to 1970*, series Q 199-207]

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total travel	719	888	1,121	1,268	1,309	1,286	1,330	1,412	1,477	1,548	1,529	1,521	1,550
Average annual percent change.....	¹ 3.6	4.3	4.8	6.4	3.2	-1.8	3.5	6.2	4.6	4.8	-1.2	- .5	1.9
Passenger cars ²	588	712	901	1,004	1,037	1,013	1,051	1,098	1,141	1,194	1,163	1,130	1,132
Rural.....	303	333	406	436	444	427	441	462	475	501	479	459	457
Urban.....	285	378	495	568	592	586	610	637	666	694	684	671	676
Buses.....	4.4	4.8	5.0	5.1	5.0	5.1	5.1	5.8	5.9	6.1	6.1	6.4	6.4
Rural.....	2.3	2.6	2.8	3.0	2.9	3.0	3.0	3.2	3.2	3.2	3.2	3.3	3.0
Urban.....	2.1	2.2	2.2	2.1	2.1	2.1	2.2	2.6	2.7	2.9	2.9	3.1	3.4
Trucks and combinations.....	126	171	215	260	267	268	275	308	330	348	360	385	412
Rural.....	82	103	134	151	154	153	157	183	176	186	188	211	227
Urban.....	45	69	81	108	113	114	118	145	153	162	172	174	184
Average miles per vehicle (1,000):													
Passenger vehicles..	9.5	9.3	9.8	10.0	9.8	9.2	9.4	9.5	9.6	9.8	9.3	8.9	8.8
Passenger cars ² ..	9.4	9.3	9.8	10.0	9.8	9.2	9.4	9.5	9.6	9.8	9.2	8.9	8.8
Buses.....	16.0	15.2	13.3	12.6	11.7	11.3	11.1	12.0	12.0	12.1	11.7	12.1	11.8
Trucks.....	10.6	11.6	11.5	12.2	11.5	10.9	10.6	11.1	11.1	11.0	10.8	11.4	11.9
Motor vehicle speed: ³													
Vehicles recorded (1,000).....	(NA)	(NA)	200	160	181	203	102	515	500	468	506	667	3,048
Avg. speed, all vehicles (miles per hr).....	54.8	60.6	63.8	64.9	65.0	57.6	57.6	58.2	58.8	58.8	58.3	57.5	57.9
Percent of vehicles exceeding—													
55 m.p.h.....	47	72	87	89	89	65	68	69	74	74	72	66	68
60 m.p.h.....	24	51	69	71	72	29	27	32	35	36	32	25	30
65 m.p.h.....	(NA)	(NA)	44	49	50	9	7	10	10	10	9	7	9

NA Not available. ¹ Change from 1955. ² Includes taxicabs and motorcycles. ³ For 1960-1979, based on free flow speed of vehicles recorded on level, straight sections of rural interstate highways during off-peak hours; beginning 1980, based on all vehicles on rural interstate highways. Beginning 1976, for year ending Sept. 30.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual, and unpublished data.

NO. 1074. DOMESTIC MOTOR FUEL CONSUMPTION, BY TYPE OF VEHICLE: 1960 TO 1981

[Comprises all fuels (gas, diesel, or other fuels) used for propulsion of vehicles under State motor fuels laws. Excludes Federal purchases for military use. Minus sign (-) indicates decrease. See also, *Historical Statistics, Colonial Times to 1970*, series Q 156-162]

YEAR	FUEL CONSUMPTION					AVERAGE FUEL CONSUMPTION PER VEHICLE (gal.)				AVERAGE MILEAGE PER GALLON			
	All vehicles (bil. gal.)	Avg. annual percent change ¹	Cars ² (bil. gal.)	Buses ³ (bil. gal.)	Trucks ⁴ (bil. gal.)	All vehicles	Cars ²	Buses ³	Trucks ⁴	All vehicles	Cars ²	Buses ³	Trucks ⁴
1960.....	57.9	4.0	41.2	.8	15.8	777	661	3,040	1,330	12.42	14.28	5.26	7.96
1965.....	71.1	4.2	50.3	.9	19.9	775	656	2,844	1,347	12.49	14.15	5.35	8.60
1970.....	92.3	5.4	65.8	.9	25.6	830	722	2,491	1,365	12.14	13.58	5.34	8.39
1971.....	97.6	5.7	69.5	.9	27.1	838	723	2,382	1,368	12.16	13.73	5.38	8.38
1972.....	105.1	6.7	73.5	.9	30.7	859	730	2,165	1,446	12.07	13.67	5.80	8.59
1973.....	110.5	6.2	78.0	.8	31.6	851	736	1,991	1,361	11.85	13.29	5.86	8.45
1974.....	106.3	-3.8	74.2	.9	31.2	788	676	1,919	1,268	12.09	13.65	5.90	8.57
1975.....	109.0	2.5	76.5	.9	31.6	790	685	1,937	1,227	12.20	13.74	5.75	8.68
1976.....	115.7	6.2	78.8	1.0	35.9	807	685	2,015	1,292	12.20	13.93	5.98	8.58
1977.....	119.6	3.4	80.7	1.0	38.0	804	680	2,002	1,284	12.34	14.15	5.98	8.68
1978.....	125.1	4.6	83.8	1.0	40.3	813	688	2,041	1,270	12.38	14.26	5.95	8.64
1979.....	122.1	-2.4	80.2	1.0	40.9	785	638	1,966	1,225	12.52	14.49	5.97	8.82
1980.....	115.0	-5.8	73.7	1.1	40.1	711	579	2,034	1,194	13.23	15.32	5.95	9.58
1981.....	114.5	- .4	72.1	1.1	41.3	697	557	1,988	1,198	13.55	15.71	5.90	9.97

¹ From prior years shown. For 1960, change from 1955. ² Includes taxicabs and motorcycles. ³ Includes school buses.

⁴ Includes combinations.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

No. 1075. DOMESTIC MOTOR GASOLINE SUPPLY: 1973 TO 1983

YEAR	SUPPLY ¹ (1,000 bbls. per day)		Pro- duction (1,000 bbls. per day)	Net im- ports (1,000 bbls. per day)	Stocks ² (mil. bbls.)	YEAR AND MONTH	SUPPLY ¹ (1,000 bbls. per day)		Pro- duction (1,000 bbls. per day)	Net im- ports (1,000 bbls. per day)	Stocks ² (mil. bbls.)
	Total	Un- leaded					Total	Un- leaded			
1973, avg.....	6,674	(NA)	6,535	130	209	1982, March.....	6,466	3,358	5,994	139	247
1974, avg.....	6,537	(NA)	6,360	202	216	June.....	6,835	3,565	6,754	116	219
1975, avg.....	6,675	(NA)	6,520	182	235	Sept.....	6,531	3,404	6,527	201	234
1976, avg.....	6,978	1,508	6,841	128	231	Dec.....	6,549	3,485	6,542	171	235
1977, avg.....	7,177	1,976	7,033	215	258						
1978, avg.....	7,412	2,521	7,169	189	238	1983, March.....	6,843	3,620	5,897	182	224
1979, avg.....	7,034	2,798	6,852	181	237	June ³	6,923	(NA)	6,608	(NA)	222
1980, avg.....	6,579	3,067	6,506	139	261						
1981, avg.....	6,588	3,264	6,405	155	253						
1982, avg.....	6,539	3,409	6,338	177	235						

NA Not available. ¹ Production plus net imports less net increase in primary stocks. ² End of year or month.
³ Preliminary.

Source: U.S. Energy Information Administration, *Monthly Energy Review*, Aug. 1983, and earlier issues.

No. 1076. GASOLINE FUEL—RETAIL PRICES, SELECTED COUNTRIES: 1973 TO 1981

[In U.S. cents per U.S. gallon, except percent. As of July, except as indicated. Price includes tax except as noted. For most countries, based on exchange rates in effect as of July 31 of year shown. For explanation of average annual percent change, see Guide to Tabular Presentation]

ITEM	1973	1974	1975	1976	1977	1978	1979	1980	1981
United States: ¹ Regular.....	40	53	57	59	62	63	66	119	131
Premium.....	45	57	61	64	67	69	72	128	144
Tax.....	11	11	12	12	12	13	14	14	14
Unleaded.....	(NA)	55	60	61	66	67	90	125	138
France, Paris: Regular.....	106	132	156	140	170	215	243	297	241
Tax.....	82	81	94	81	110	130	167	170	111
Premium.....	115	143	169	161	184	232	262	317	255
Italy, Rome: Regular.....	99	169	166	174	206	216	244	308	273
Tax.....	79	120	115	116	153	160	186	189	167
Premium.....	105	177	171	181	215	225	253	315	284
United Kingdom: Regular.....	78	104	127	104	118	114	218	260	262
Tax ²	48	45	41	44	43	47	70	124	136
Premium.....	81	108	131	105	121	119	221	265	265
Germany, F.R., Bonn: Regular.....	118	127	125	139	144	168	209	246	232
Tax ²	72	65	65	65	73	81	91	123	111
Premium.....	131	137	134	148	154	176	219	257	242
Canada, Ottawa: Regular.....	49	57	66	66	69	67	71	81	116
Tax.....	19	19	23	29	28	26	24	25	31
Premium.....	53	62	67	72	75	73	78	89	126
Mexico, Mexico City: Regular.....	24	42	64	65	46	47	47	45	44
Tax.....	(NA)	(NA)	31	31	22	22	22	15	15
Premium.....	93	136	136	136	163	201	227	272	255
Japan, Tokyo: Regular.....	42	45	45	57	61	87	95	93	95
Tax ⁴	88	155	163	151	178	223	246	289	272
Premium.....									

NA Not available. ¹ 1973–1976 prices for regular and premium at Washington, D.C.; all other data are national averages.
² Excludes value-added tax. ³ January 1981. ⁴ Excludes import duty.

Source: U.S. Energy Information Administration; Regular—*International Petroleum Annual*; Premium—*International Energy Annual*.

No. 1077. 12-YEAR COST OF OWNING AND OPERATING AN AUTOMOBILE, BY SIZE OF CAR: 1981

[For basis of estimates for components of cost, see footnotes, table 1078. Estimates based on vehicle operated in Baltimore, Md. area with an assumed life-span of 12 years, 120,000 miles]

ITEM	Total ¹	Taxes and fees	Costs, excl. taxes ¹	Depreci- ation	Repairs, mainte- nance	Tires	Gasoline	Insur- ance	Parking
Total costs (\$1,000):									
Standard ²	32.0	1.8	30.2	9.2	6.2	.9	8.6	4.0	.9
Compact ³	25.7	1.4	24.3	7.1	5.2	.6	6.1	4.0	.9
Subcompact ⁴	22.6	1.2	21.4	5.6	5.0	.5	5.2	3.7	.9
Passenger van ⁵	40.0	2.3	37.7	12.9	6.6	.9	10.4	5.3	.9
Cents per mile cost:									
Standard ²	26.68	1.49	25.19	7.69	5.20	.72	7.17	3.33	.78
Compact ³	21.44	1.15	20.29	5.93	4.37	.48	5.08	3.33	.78
Subcompact ⁴	18.79	.98	17.81	4.69	4.20	.43	4.35	3.05	.78
Passenger van ⁵	33.33	1.93	31.40	10.73	5.52	.73	8.71	4.44	.78

¹ Includes accessories and oil. ² Fully equipped 4-door sedan, price \$9,232. ³ 2-door sedan, price \$7,111. ⁴ 2-door sedan, price \$5,625. ⁵ Passenger van, price \$12,877.

Source: U.S. Federal Highway Administration, *Cost of Owning and Operating Automobiles and Vans*, periodic.

NO. 1078. ESTIMATED COST OF OWNING AND OPERATING AN AUTOMOBILE: 1970 TO 1981

[1981 estimates based on an automobile operated from the Baltimore, Md. area, costing \$9,232, large car, and \$7,111, compact car, with an assumed life-span of 12 years, 120,000 miles. Prior years based on life-span of 10 years, 100,000 miles. Similar specifications used in other years shown]

ITEM	TOTAL COSTS (\$1,000)				CENTS PER MILE COST, 1981 (January)							
	1970	1976	1979	1981	12- year aver- age	1st year (14,500 miles)	3d year (12,500 miles)	5th year (10,300 miles)	7th year (9,200 miles)	10th year (7,800 miles)	12th year (6,700 miles)	
STANDARD SIZE 4-DOOR SEDAN												
Total	11.9	17.9	24.6	32.0	26.7	33.6	28.4	29.1	34.0	17.9	17.6	
Costs excluding taxes	10.5	16.3	23.0	30.2	25.2	29.5	27.3	27.9	32.6	16.8	16.5	
Depreciation	3.2	4.9	6.3	9.2	7.7	16.9	9.6	8.1	5.7	2.1	1.9	
Repairs and maintenance ¹	1.5	3.7	4.8	6.2	5.2	1.1	5.7	6.4	14.8	2.0	1.5	
Replacement tires ² .....	.4	.4	.6	.9	.7	.1	.2	1.0	1.0	1.0	1.0
Accessories ³	(2)	1	.1	.2	.1	.1	.1	.1	.2	.2	.2	
Gasoline ⁴	1.7	3.2	5.4	8.6	7.2	7.2	7.2	7.2	7.2	7.2	7.2	
Oil ⁴ .....	.2	.2	.1	.2	.2	.1	.2	.2	.2	.2	.1
Insurance ⁵	1.7	1.7	2.5	4.0	3.3	3.2	3.6	4.1	2.8	3.3	3.8	
Garaging, parking, etc. ⁶	1.8	2.2	3.2	.9	.8	.8	.8	.8	.8	.8	.8	
Taxes and fees ⁷	1.4	1.6	1.6	1.8	1.5	4.1	1.1	1.2	1.4	1.1	1.1	
COMPACT CAR												
Total	(NA)	14.6	21.7	25.7	21.4	21.7	21.0	24.0	26.5	19.1	17.6	
Costs excluding taxes	(NA)	13.5	20.4	24.3	20.3	18.6	20.2	23.1	25.4	18.2	16.7	
Depreciation	(NA)	3.8	5.2	7.1	5.9	8.3	5.8	5.6	4.9	5.3	4.7	
Repairs and maintenance ¹	(NA)	3.0	4.2	5.2	4.4	.9	4.5	6.6	10.9	2.4	1.1	
Replacement tires ²	(NA)	.4	.5	.6	.5	.1	.1	.6	.6	.9	.9	
Accessories ³	(NA)	.1	.1	.2	.1	.1	.1	.1	.2	.2	.2	
Gasoline ⁴	(NA)	2.3	4.8	6.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	
Oil ⁴	(NA)	.2	.1	.2	.2	.1	.2	.2	.1	.2	.1	
Insurance ⁵	(NA)	1.6	2.3	4.0	3.3	3.2	3.6	4.1	2.8	3.3	3.8	
Garaging, parking, etc. ⁶	(NA)	2.1	3.2	.9	.8	.8	.8	.8	.8	.8	.8	
Taxes and fees ⁷	(NA)	1.1	1.3	1.4	1.1	3.1	.8	.9	1.1	.9	.9	

NA Not available. Z Less than \$50. ¹ For 1981, includes lubrications, repacking wheel bearings, flushing cooling system, aiming headlamps; replacement of minor parts such as spark plugs, fan belts, radiator hoses, fuel filter, and pollution control equipment; minor repairs such as brake jobs, water pump, carburetor overhaul, and universal joints; and major repairs such as a complete "valve job." ² For 1981, covers 8 new regular tires and 2 new snow tires during life of car. ³ For 1981, includes a set of vinyl floor mats, seat covers, and a pair of extra wheels. ⁴ For 1981, gasoline use set at 17 miles per gallon for standard size sedan and 24 miles per gallon for compact car; associated oil use at 1 quart oil every 2,500 miles driven between 50,000 and 75,000 miles and 1 quart every 2,000 miles driven between 75,000 and 120,000 miles. ⁵ For 1981, includes \$20,000/40,000 bodily injury, and \$10,000 property damage, \$2,500 personal injury protection, uninsured motorist coverage, and full comprehensive coverage for the 12-year period; \$100 deductible collision insurance was assumed for the first 5 years. ⁶ For 1981, includes parking fee average of \$71 per year and toll average of \$7.49 per year. For 1981, excludes cost of home garage or parking facility which was included in prior years. ⁷ For 1981, includes Federal excise taxes on tires of 10 cents per lb., lubricating oil of 6 cents per gallon, and gasoline of 4 cents per gallon; plus the Maryland tax on gasoline of 9 cents per gallon, titling tax of 5 percent of retail price, and registration fee of \$20.00 for 3,700 lb. or less shipping weight, or \$30.00 for vehicles over 3,700 lb. State sales tax of 5 percent included on certain items.

Source: U.S. Federal Highway Administration, *Cost of Owning and Operating Automobiles and Vans*, periodic.

NO. 1079. HOUSEHOLD MOTOR VEHICLE TRANSPORTATION, BY VEHICLE CHARACTERISTICS: 1980

[Excludes Alaska and Hawaii. Household vehicles include all motorized vehicles used for personal transportation, excluding motorcycles, mopeds, large trucks, and buses. Based on the Household Transportation Panel Survey; subject to sampling variability]

ITEM	Unit	Total ¹	VEHICLE SIZE				MODEL YEAR		
			Full size	Intermediate	Compact	Sub-compact	1969 and earlier	1970 to 1974	1975 to 1981
Miles driven	Billions	1,094.2	240.0	203.9	199.9	215.8	88.3	299.7	705.2
Average per vehicle per month	Number	717.9	662.2	725.4	717.2	847.4	371.4	593.7	904.4
Fuel expenditures	Bill. dol.	89.7	23.1	18.2	15.4	11.4	8.1	26.9	54.6
Average per vehicle per month	Dollars	58.8	63.8	64.7	55.3	44.9	34.1	53.2	70.1
Leaded fuels	Bill. dol.	40.0	9.8	6.2	5.1	4.7	6.6	21.7	11.6
Unleaded fuels	Bill. dol.	43.8	11.7	10.9	9.4	6.1	.6	2.5	40.7
Diesel and unknown	Bill. dol.	5.9	1.6	1.0	.9	.7	.9	2.6	2.3
Fuel purchased	Bill. gal.	74.9	19.3	15.0	12.8	9.5	6.9	22.8	45.1
Average per vehicle per month	Gallons	49.1	53.1	53.5	45.9	37.3	28.9	45.2	57.9
Leaded fuels	Bill. gal.	34.2	8.4	5.3	4.4	4.0	.5	18.5	10.0
Unleaded fuels	Bill. gal.	35.7	9.5	8.9	7.7	4.9	.5	2.1	33.1
Diesel and unknown	Bill. gal.	5.0	1.4	.9	.8	.5	.8	2.2	2.0
Miles per gallon	Number	14.7	12.5	13.6	15.7	22.7	12.9	13.2	15.7

¹ Includes other and unknown, not shown separately.

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey: Consumption Patterns of Household Vehicles, June 1979 to December 1980*, April 1982.

NO. 1080. HOUSEHOLD TRANSPORTATION, BY HOUSEHOLD CHARACTERISTICS: 1980

[Excludes Alaska and Hawaii. Household vehicles include all motorized vehicles used for personal transportation, excluding motorcycles, mopeds, large trucks, and buses. Based on the Household Transportation Panel Survey; subject to sampling variability]

ITEM	Unit	Total	HOUSEHOLD LOCATION		FAMILY INCOME		NUMBER OF VEHICLES USED BY HOUSEHOLD		NUMBER OF DRIVERS IN HOUSEHOLD ¹	
			Urban areas	Rural areas	Less than \$15,000	Above \$15,000	One vehicle	Two or more vehicles	1 or 2 drivers	3 or more drivers
Miles driven.....	Billions	1,094.2	719.8	374.4	355.2	738.9	239.7	854.5	796.8	294.9
Average per vehicle per month.....	Number....	717.9	697.0	761.9	(NA)	(NA)	720.7	717.1	695.1	790.6
Fuel expenditures.....	Bil. dol....	89.7	59.5	30.1	29.8	59.9	20.2	69.4	65.0	24.4
Average per vehicle per month.....	Dollars....	58.8	57.7	61.3	(NA)	(NA)	60.9	58.3	56.7	65.5
Leaded fuels.....	Bil. dol....	40.0	25.3	14.7	14.4	25.7	7.5	32.5	28.1	11.8
Unleaded fuels.....	Bil. dol....	43.8	30.4	13.4	12.8	31.1	11.1	32.6	32.2	11.5
Diesel and unknown.....	Bil. dol....	5.9	3.9	2.0	2.6	3.2	1.6	4.2	4.7	1.2
Fuel purchased.....	Bil. gal....	74.9	49.5	25.4	24.9	50.0	16.7	58.2	54.2	20.5
Average per vehicle.....	Gallons....	49.1	47.9	51.7	(NA)	(NA)	50.3	48.6	47.3	55.0
Leaded fuels.....	Bil. gal....	34.2	21.5	12.5	12.2	21.9	6.3	27.8	23.9	10.1
Unleaded fuels.....	Bil. gal....	35.7	24.7	11.0	10.3	25.4	9.1	26.6	26.2	9.4
Diesel and unknown.....	Bil. gal....	5.0	3.3	1.7	2.3	2.7	1.4	3.6	4.0	1.0
Miles per gallon.....	Number....	14.7	14.6	14.8	(NA)	(NA)	14.4	14.7	14.8	14.4

NA Not available. ¹ Excludes small number of unknown.

Source: U.S. Energy Information Administration, *Consumption Patterns of Household Vehicles, June 1979 to December 1980*, April 1982.

NO. 1081. PRINCIPAL MEANS OF TRANSPORTATION TO WORK—SELECTED METROPOLITAN AREAS: 1980

[Workers 16 years old and over. Covers SMSA's with population of 1 million or more]

METROPOLITAN AREA	Work- ers (1,000)	PERCENT USING—				METROPOLITAN AREA	Work- ers (1,000)	PERCENT USING—			
		Car, truck, or van		Public trans- porta- tion ¹	Other means ²			Car, truck, or van		Public trans- porta- tion ¹	Other means ²
		Drive alone	Car- pool					Drive alone	Car- pool		
Anaheim-Santa Ana-Garden Grove, Calif.....	962	74.8	16.1	2.1	7.0	Minneapolis-St. Paul, Minn.-Wis.....	1,046	63.1	19.9	8.7	8.3
Atlanta, Ga.....	948	68.7	19.6	7.6	4.1	Nassau-Suffolk, N.Y.....	1,140	63.7	17.6	12.5	6.2
Baltimore, Md.....	967	59.8	22.3	10.3	7.7	New Orleans, La.....	485	61.7	20.6	10.9	6.8
Boston, Mass.....	1,308	56.0	17.0	15.7	11.3	New York, N.Y.-N.J.....	3,792	30.7	11.6	45.1	12.6
Buffalo, N.Y.....	500	66.6	18.6	6.6	8.2	Newark, N.J.....	879	64.0	17.9	10.7	7.4
Chicago, Ill.....	3,163	57.6	16.7	18.0	7.7	Philadelphia, Pa.- N.J.....	1,959	59.1	17.6	14.0	9.2
Cincinnati, Ohio- Ky.-Ind.....	588	68.8	18.8	6.5	5.8	Phoenix, Ariz.....	659	70.2	19.0	2.0	8.9
Cleveland, Ohio.....	820	67.9	16.0	10.6	5.5	Pittsburgh, Pa.....	912	60.7	19.4	11.5	8.4
Columbus, Ohio.....	488	70.3	18.2	4.6	6.8	Portland, Oreg.- Wash.....	568	65.3	18.0	8.4	8.2
Dallas-Fort Worth, Tex.....	1,465	71.2	20.6	3.4	4.8	Riverside-San Bernardino- Ontario, Calif.....	614	71.9	18.3	0.9	8.9
Denver-Boulder, Colo.....	809	65.4	20.2	6.1	8.3	Sacramento, Calif.....	435	69.0	17.6	3.5	9.9
Detroit, Mich.....	1,710	75.1	16.9	3.7	4.3	St. Louis, Mo.-Ill.....	1,004	67.3	21.4	5.7	5.8
Fort Lauderdale- Hollywood, Fla.....	424	73.7	18.1	2.0	6.2	San Antonio, Tex.....	450	66.9	19.9	4.6	8.6
Houston, Tex.....	1,415	69.5	22.4	3.0	5.0	San Diego, Calif.....	855	63.8	17.4	3.3	15.5
Indianapolis, Ind.....	523	70.3	21.0	3.2	5.5	San Francisco- Oakland, Calif.....	1,562	57.9	15.7	16.4	9.9
Kansas City, Mo.- Kans.....	618	69.3	21.5	4.1	5.1	San Jose, Calif.....	650	72.5	16.6	3.1	7.9
Los Angeles-Long Beach, Calif.....	3,374	68.7	16.8	7.0	7.5	Seattle-Everett, Wash.....	776	63.9	18.2	9.6	6.3
Miami, Fla.....	726	67.4	19.6	6.6	6.4	Tampa-St. Petersburg, Fla.....	606	72.0	18.4	1.8	7.8
Milwaukee, Wis.....	642	65.0	19.0	7.7	8.3	Washington, D.C.- Md.-Va.....	1,553	53.7	22.9	15.5	7.9

¹ Includes bus or streetcar, subway or elevated train, railroad, and taxicab. ² Includes motorcycle, bicycle, walked only, worked at home, and all other modes not specified.

Source: U.S. Bureau of the Census, *1980 Census of Population*, vol. 1; chapter C (PC80-1-C).

NO. 1082. PLACES OF WORK AND RESIDENCE AND PUBLIC TRANSPORTATION USE, FOR SELECTED CITIES: 1980

[Cities ranked by size of population enumerated as of April 1 Workers 16 years old and over]

CITY	WORKERS LIVING IN CITY				WORKERS WORKING IN CITY		PERCENT COMMUTING		Net worker movement ⁴ (1,000)	Worker/ resident ratio ⁵
	Total (1,000)	Place of work reported			Total (1,000)	Living outside city (1,000)	Out of city ²	Into city ³		
		Inside city (1,000)	Outside city (1,000)	Percent using public transp. ¹						
New York, N.Y.	2,500	2,344	156	55.8	2,976	632	6.22	21.24	476	1.191
Chicago, Ill.	1,050	850	200	32.4	1,273	422	19.02	33.19	223	1.212
Los Angeles, Calif.	1,221	875	346	10.8	1,416	541	28.37	38.22	195	1.159
Philadelphia, Pa.	553	474	79	30.2	698	224	14.35	32.13	145	1.262
Houston, Tex.	710	632	78	4.8	930	298	10.88	32.01	220	1.309
Detroit, Mich.	330	214	116	11.8	425	211	35.20	49.59	94	1.285
Dallas, Tex.	409	337	72	8.3	602	265	17.64	44.02	193	1.471
San Diego, Calif.	387	307	80	4.3	449	142	20.72	31.62	62	1.159
Phoenix, Ariz.	326	269	57	2.7	362	93	17.49	25.68	36	1.110
Baltimore, Md.	259	197	62	25.4	388	191	24.05	49.22	129	1.496
San Antonio, Tex.	292	267	25	6.0	350	83	8.55	23.62	59	1.201
Indianapolis, Ind.	293	261	32	5.0	366	104	10.86	28.46	72	1.246
San Francisco, Calif.	295	252	43	38.5	459	206	14.43	44.98	164	1.555
Memphis, Tenn.	238	221	17	6.4	285	64	7.17	22.57	47	1.199
Washington, D.C.	254	206	49	30.0	594	388	19.13	65.36	340	2.334
Milwaukee, Wis.	253	184	69	14.3	307	122	27.11	39.85	54	1.212
San Jose, Calif.	269	129	141	3.3	201	72	52.27	35.96	-69	.745
Cleveland, Ohio	186	130	55	19.5	342	212	29.72	61.87	156	1.843
Columbus, Ohio	232	187	45	7.3	303	116	19.26	38.30	72	1.309
Boston, Mass.	221	165	56	33.7	421	256	25.17	60.81	201	1.909
New Orleans, La.	189	156	33	21.0	244	88	17.27	35.94	55	1.291
Jacksonville, Fla.	217	201	16	5.4	234	33	7.48	14.20	17	1.078
Seattle, Wash.	229	192	37	19.3	359	168	16.28	46.68	131	1.570
Denver, Colo.	221	165	55	10.2	363	197	25.08	54.41	142	1.643
Nashville-Davidson, Tenn.	193	171	22	5.4	232	61	11.60	26.35	39	1.200
St. Louis, Mo.	150	113	37	18.6	315	201	24.43	63.97	165	2.097
Kansas City, Mo.	189	141	47	9.4	280	139	25.13	49.58	92	1.485
El Paso, Tex.	149	140	9	4.2	158	18	6.26	11.57	9	1.060
Atlanta, Ga.	151	111	40	24.5	336	226	26.69	67.11	185	2.229
Pittsburgh, Pa.	156	122	33	28.3	310	187	21.33	60.50	154	1.992
Oklahoma City, Okla.	171	153	18	1.8	253	100	10.40	39.58	82	1.483
Cincinnati, Ohio	141	105	36	15.0	258	153	25.74	59.33	117	1.826
Fort Worth, Tex.	163	124	39	3.6	211	86	23.65	40.98	48	1.294
Minneapolis, Minn.	171	110	60	21.8	257	146	35.37	57.03	86	1.504
Portland, Ore.	153	125	28	15.9	274	148	18.06	54.23	121	1.790
Honolulu, Hawaii	169	163	6	13.5	230	77	9.23	33.49	62	1.365
Long Beach, Calif.	146	68	78	6.2	146	79	53.64	53.75	-	1.002
Tulsa, Okla.	162	146	16	3.2	209	63	9.95	30.10	47	1.288
Buffalo, N.Y.	117	87	30	17.0	188	101	25.96	53.76	70	1.601
Toledo, Ohio	128	106	22	5.0	159	53	17.43	33.53	31	1.242
Miami, Fla.	134	88	46	13.8	314	226	34.44	72.08	180	2.348
Austin, Tex.	160	150	10	4.4	200	51	6.14	25.21	41	1.255
Oakland, Calif.	124	65	59	21.6	166	101	47.26	60.64	42	1.340
Albuquerque, N. Mex.	137	123	14	3.0	158	35	9.95	22.15	21	1.157
Tucson, Ariz.	133	109	24	3.9	157	48	17.87	30.64	24	1.184
Newark, N.J.	87	45	42	26.4	146	101	47.89	68.89	59	1.661
Charlotte, N.C.	138	122	16	6.0	192	70	11.69	36.35	54	1.388
Omaha, Nebr.	135	122	13	7.2	189	67	9.68	35.31	54	1.396
Louisville, Ky.	108	81	27	10.6	205	124	25.19	60.64	97	1.900
Birmingham, Ala.	103	78	25	6.7	180	102	24.12	56.79	78	1.756
Wichita, Kans.	127	105	21	2.6	139	33	16.80	24.11	12	1.096
Sacramento, Calif.	99	75	24	5.3	190	115	24.47	60.66	91	1.920
Tampa, Fla.	103	84	19	3.2	185	100	18.05	54.36	82	1.796
St. Paul, Minn.	116	79	37	15.0	183	104	32.19	56.98	67	1.576
Norfolk, Va.	113	73	40	8.0	147	74	34.89	50.01	34	1.300
Virginia Beach, Va.	119	60	58	1.7	78	17	49.08	21.97	-41	.653
Rochester, N.Y.	91	70	22	14.6	195	125	23.68	64.28	104	2.127
St. Petersburg, Fla.	85	58	27	3.7	86	29	32.04	33.14	1	1.016
Akron, Ohio	85	60	25	4.6	118	58	29.11	48.94	33	1.388
Corpus Christi, Tex.	88	80	8	1.4	93	12	9.15	13.44	4	1.050
Jersey City, N.J.	76	37	39	34.1	72	34	51.25	48.13	-5	.940
Baton Rouge, La.	84	68	17	2.2	120	52	19.74	43.63	36	1.424
Anaheim, Calif.	102	37	65	2.2	117	80	63.87	68.57	15	1.150
Richmond, Va.	89	71	18	17.0	179	108	19.85	60.36	91	2.022

- Represents zero. ¹ Includes workers using bus or streetcar, subway or elevated train, railroad, or taxicab. ² Percent of workers living in the city with place of work reported who commute to a place of work outside the city. ³ Percent of workers working in the city who commute in from a residence outside the city. ⁴ Minus sign (-) denotes an outflow of workers. ⁵ Number of persons reported as working in the city divided by the number of residents of the city whose place of work was reported.

Source: U.S. Bureau of the Census, 1980 Census of Population, vol. 1, chapter C (PC80-1-C), and unpublished data.

NO. 1083. PASSENGER TRANSIT INDUSTRY—SUMMARY: 1960 TO 1982

[Beginning 1970, includes Puerto Rico. Comprises all privately and publicly owned organized local passenger transportation agencies except taxicabs, suburban railroads, and sightseeing and school buses. Covers (a) local motorbus lines, (b) light rail lines, (c) heavy rail lines, and (d) trolley coach lines. Based on financial and statistical reports received by American Public Transit Association from transit systems representing more than 85 percent of the industry. See also *Historical Statistics, Colonial Times to 1970*, series Q 238-250]

ITEM	Unit	1960	1965	1970	1975	1978	1979	1980	1981	1982, prel.
Operating systems	Number.....	1,251	1,148	1,079	947	1,018	1,027	1,044	1,035	1,034
Motorbus systems ¹	Number.....	1,236	1,145	1,075	941	1,014	1,023	1,040	1,030	1,029
Publicly owned systems ¹	Number.....	54	78	144	393	463	523	576	578	581
Passenger vehicles owned	Number.....	65,292	61,717	61,350	62,225	64,013	65,739	70,983	72,063	73,803
Motorbuses.....	Number.....	49,800	49,600	49,700	50,811	52,866	54,490	59,411	60,393	62,114
Electric railway cars ²	Number.....	11,866	10,664	10,600	10,712	10,554	10,524	10,749	10,919	10,928
Heavy rail.....	Number.....	9,010	9,115	9,938	9,608	9,567	9,522	9,693	9,801	9,867
Trolley coaches.....	Number.....	3,828	1,453	1,050	703	593	725	823	751	763
Total revenue	Mil. dol.....	(NA)	(NA)	(NA)	3,451	4,682	5,558	6,510	7,366	8,044
Operating revenue.....	Mil. dol.....	1,407	1,444	1,707	2,002	2,381	2,524	2,663	2,784	3,152
Nonoperating revenue ⁴	Mil. dol.....	(NA)	(NA)	(NA)	41	69	124	142	261	305
Operating assistance.....	Mil. dol.....	(NA)	(NA)	(NA)	1,408	2,232	2,910	3,705	4,321	4,567
Federal.....	Mil. dol.....	(NA)	(NA)	(NA)	302	690	856	1,094	1,095	1,005
State and local.....	Mil. dol.....	(NA)	(NA)	(NA)	1,106	1,542	2,055	2,611	3,226	3,562
Total expense	Mil. dol.....	1,377	1,454	1,996	3,752	4,789	5,611	6,711	7,623	8,324
Operating expense.....	Mil. dol.....	(NA)	(NA)	(NA)	3,537	4,539	5,232	6,246	7,024	7,563
Transportation.....	Mil. dol.....	(NA)	(NA)	(NA)	1,877	2,508	2,735	3,248	3,596	3,887
Maintenance.....	Mil. dol.....	(NA)	(NA)	(NA)	814	1,069	1,469	1,774	1,946	2,171
Administration.....	Mil. dol.....	(NA)	(NA)	(NA)	846	982	1,028	1,224	1,482	1,505
Reconciling expense.....	Mil. dol.....	(NA)	(NA)	(NA)	215	250	360	464	597	761
Vehicle-miles operated ⁵	Million.....	2,143	2,008	1,883	1,990	2,028	2,045	2,095	2,137	2,132
Motorbus.....	Million.....	1,576	1,528	1,409	1,526	1,630	1,634	1,677	1,685	1,689
Electric railway ²	Million.....	456	437	441	448	384	400	405	440	450
Heavy rail.....	Million.....	391	395	407	423	364	380	385	420	429
Passengers carried ⁶	Million.....	9,395	8,253	7,332	6,972	7,944	8,543	8,671	8,409	8,085
Motorbus ⁶	Million.....	6,425	5,814	5,034	5,084	5,632	6,081	6,277	6,025	5,705
Electric railway ²	Million.....	2,313	2,134	2,116	1,810	2,248	2,340	2,256	2,256	2,233
Revenue passengers carried	Million.....	7,521	6,798	5,932	5,643	5,963	6,370	6,447	6,278	6,036
Motorbus.....	Million.....	5,069	4,730	4,058	4,095	4,406	4,746	4,871	4,656	4,417
Electric railway ²	Million.....	2,005	1,882	1,746	1,493	1,506	1,569	1,504	1,543	1,528
Heavy rail.....	Million.....	1,670	1,678	1,574	1,388	1,415	1,474	1,410	1,444	1,433
Trolley coach.....	Million.....	447	186	128	56	51	55	72	79	93
Average fares	Cents.....	17.8	19.7	27.6	33.0	38.1	38.2	39.7	43.0	51.0
Employees, number (avg.) ⁷	1,000.....	156	145	138	160	165	179	189	194	197
Payroll, employees.....	Mil. dol.....	857	964	1,274	2,236	2,741	3,025	3,260	3,494	3,736

NA Not available. ¹ Includes systems with combined services including motorbuses, heavy rail cars, light rail cars, trolley coaches, cable cars, and inclined plane cars. ² Includes light rail. ³ Beginning 1975, includes cable car and inclined plane. ⁴ Includes auxiliary income. ⁵ Includes trolley coach, not shown separately. ⁶ Data for 1960-1975 not comparable with later years. ⁷ Beginning 1979, includes part-time employees counted individually.

Source: American Public Transit Association, Washington, D.C., *Transit Fact Book*, annual.

NO. 1084. FEDERAL GRANT APPROVALS FOR MASS TRANSPORTATION: 1970 TO 1982

[In millions of dollars. For years ending June 30 through 1976 except, beginning 1977, ending Sept. 30. Excludes direct Congressional authorizations to States or localities (major example is Washington, D.C.'s Metro System). Mass transportation is defined as transportation by bus, or rail or other conveyance, either publicly or privately owned which provides to the public general or special service (excluding school buses, charter and sightseeing service) on a regular and continuing basis]

TYPE OF GRANT	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total grant approvals	133	864	956	1,430	1,843	2,296	2,722	2,970	3,908	4,076	3,600
Capital grant approvals.....	133	864	956	1,287	1,479	1,724	2,037	2,102	2,787	2,946	2,544
Section 3 ¹	133	864	870	1,197	1,092	1,250	1,400	1,225	1,655	1,925	1,635
Section 5 ¹	(X)	(X)	(X)	9	26	39	50	256	431	361	298
Interstate and urban system ²	(X)	(X)	86	81	361	434	587	621	701	660	612
Operating grant approvals, Section 5 ¹	(X)	(X)	(X)	143	364	572	685	868	1,121	1,130	1,056

X Not applicable. ¹ Grants allowed under Urban Mass Transportation Act of 1964 as amended. Section 3 grants are discretionary grants awarded upon application by local authorities. Section 5 grants are formula grants awarded to cities meeting certain criteria. ² Grants under Federal Highway Act of 1973.

Source: American Public Transit Association, *Transit Fact Book*, annual. Data from U.S. Urban Mass Transportation Administration.

No. 1085. CLASS I INTERCITY MOTOR CARRIERS OF PROPERTY, BY CARRIER: 1975 TO 1981

[See headnote, table 1086. Common carriers are carriers offering regular scheduled service. Contract carriers provide service at request of user. Minus sign (—) denotes loss]

ITEM	Unit	1975	1979	1980	1981	1975	1979	1980	1981
		COMMON CARRIER, GENERAL FREIGHT				COMMON CARRIER OTHER THAN GENERAL FREIGHT			
Carriers reporting.....	Number.....	368	321	298	261	330	445	441	403
Number of employees, average.....	1,000.....	379	366	413	392	94	104	101	92
Compensation of employees.....	Mil. dol.....	5,726	8,285	9,803	10,228	1,046	1,852	1,931	1,917
Operating revenues.....	Mil. dol.....	11,116	16,889	19,725	20,692	3,907	7,917	8,792	8,870
Intercity freight.....	Mil. dol.....	10,511	16,632	19,480	20,452	3,717	7,400	8,339	8,491
Operating expenses.....	Mil. dol.....	10,571	16,319	18,870	19,821	3,758	7,567	8,426	8,536
Ordinary income before taxes.....	Mil. dol.....	432	469	701	760	109	260	230	236
Net income.....	Mil. dol.....	225	335	—72	588	65	172	14	200
Total power units, intercity service.....	1,000.....	78	80	102	97	69	93	95	93
Trucks, tractors owned in operation, avg.....	1,000.....	49	50	73	68	25	33	33	31
Intercity vehicle-miles.....	Million.....	6,246	7,567	6,547	6,230	4,776	6,785	6,889	6,680
Tons of intercity revenue freight carried.....	Million.....	191	219	178	162	264	360	324	308
		CONTRACT CARRIER OTHER THAN GENERAL FREIGHT				CARRIERS OF HOUSEHOLD GOODS			
Carriers reporting.....	Number.....	50	74	69	50	32	26	28	27
Number of employees, average.....	1,000.....	10	15	14	11	4	(NA)	10	7
Compensation of employees.....	Mil. dol.....	175	361	336	299	70	(NA)	157	114
Operating revenues.....	Mil. dol.....	453	1,161	1,272	1,037	866	1,593	1,824	1,903
Intercity freight.....	Mil. dol.....	411	1,043	1,172	964	765	1,470	1,676	1,784
Operating expenses.....	Mil. dol.....	432	1,122	1,207	999	849	1,565	1,781	1,857
Ordinary income before taxes.....	Mil. dol.....	17	27	48	29	32	46	74	76
Net income.....	Mil. dol.....	9	21	28	21	18	31	42	52
Total power units, intercity service.....	1,000.....	8	12	13	11	18	27	25	27
Trucks, tractors owned in operation, avg.....	1,000.....	5	7	7	6	(2)	1	1	1
Intercity vehicle-miles.....	Million.....	454	890	934	705	688	914	969	939
Tons of intercity revenue freight carried.....	Million.....	21	33	37	27	3	5	5	5

NA Not available. Z Less than 500.

Source: U.S. Interstate Commerce Commission, *Transport Statistics in the United States*, Part 2, annual.

No. 1086. CLASS I INTERCITY MOTOR CARRIERS OF PASSENGERS: 1960 TO 1981

[Carriers subject to ICC regulations. See text, p. 604. See also *Historical Statistics, Colonial Times to 1970*, series Q 69-75]

ITEM	Unit	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981
Carriers reporting ¹	Number.....	143	156	71	81	77	78	42	43	45	48	45
Number of employees, average.....	1,000.....	35	35	34	36	31	32	27	26	27	31	31
Compensation of employees.....	Mil. dol.....	196	250	317	415	383	446	400	412	469	599	630
Operating revenue.....	Mil. dol.....	463	607	722	933	942	975	989	² 1,021	1,200	1,397	1,453
Passenger revenue ³	Mil. dol.....	382	467	524	662	651	645	655	671	802	947	993
Special bus revenue and other.....	Mil. dol.....	81	141	198	271	291	(NA)	314	345	396	215	202
Expenses.....	Mil. dol.....	405	514	639	859	880	937	924	983	1,143	1,318	1,381
Net operating revenue.....	Mil. dol.....	58	90	83	74	61	37	45	38	57	79	72
Ordinary income:												
Before income taxes.....	Mil. dol.....	55	90	88	93	83	49	58	57	57	107	88
After income taxes.....	Mil. dol.....	28	52	52	61	56	32	40	41	57	90	61
Passenger vehicles in service ³	1,000.....	12.7	13.3	13.3	13.8	9.7	(NA)	8.3	8.5	8.2	8.6	8.4
Vehicle-miles, passenger.....	Million.....	843	947	871	886	835	(NA)	754	726	754	781	732
Revenue passengers carried.....	Million.....	268	219	174	169	147	(NA)	122	118	122	134	114
Expense per vehicle-mile.....	Dollar.....	.48	.54	.73	.97	1.05	(NA)	1.23	1.35	1.52	1.69	1.99

NA Not available. ¹ Excludes carriers predominantly in local or suburban service and carriers engaged in transportation of both property and passengers. ² Includes \$4 million from Government authorities for current operations. ³ Regular route, intercity and local.

Source: U.S. Interstate Commerce Commission, *Transport Statistics in the United States*, 1960-1970, Part 7, and 1974-1981, Part 2, annual; except 1976, *Financial and Operating Statistics, Class I Motor Carriers of Passengers*, statement No. 750, semiannual. (Discontinued in 1979.)

No. 1087. INTERCITY BUS LINES—SUMMARY OF OPERATIONS: 1960 TO 1982

ITEM	Unit	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981	1982
Operating companies.....	Number.....	1,150	1,100	1,000	950	1,000	1,050	1,100	1,200	1,330	1,420	1,520
Buses.....	1,000.....	21.0	19.8	22.0	20.5	20.1	20.1	20.4	21.3	21.4	21.2	21.1
Miles of highway served (Dec. 31) ¹	1,000.....	265	263	267	274	276	276	278	280	279	273	270
Employees (Dec. 31) ²	1,000.....	45	45	50	47	46	46	46	48	49	49	48
Bus miles, total.....	Millions.....	1,092	1,157	1,209	1,126	1,118	1,118	1,100	1,153	1,162	1,136	1,114
Revenue passengers.....	Millions.....	366	378	401	351	340	329	336	368	365	375	369
Revenue passenger-miles.....	Billions.....	19.3	23.8	25.3	25.4	25.1	26.0	25.6	27.7	27.4	26.9	2,072
Operating revenue, all services.....	Mil. dol.....	556	701	901	1,172	1,232	1,331	1,419	1,664	1,943	2,075	2,072
Operating expenses.....	Mil. dol.....	495	600	812	1,103	1,180	1,276	1,366	1,572	1,811	1,963	2,016
Net operating revenue ³	Mil. dol.....	61	101	89	69	52	55	53	92	132	112	56

¹ Includes duplication between carriers. ² Operating companies only. ³ Before income taxes.

Source: American Bus Association, Washington, D.C., *Bus Facts*, annual and Annual Report.

No. 1088. RAILROADS, CLASS I—SUMMARY STATISTICS: 1960 TO 1982

[As of Dec. 31, or calendar year data, except as noted. Compiled from annual reports of class I railroads only, except where noted. Minus sign (—) indicates deficit. See also *Historical Statistics, Colonial Times to 1970*, series Q 284-312, Q 330, Q 356-363, and Q 367-377]

ITEM	Unit	1960	1965	1970	1975	1978	1979	1980	1981	1982
Class I line-hauling companies ¹	Number	106	76	71	73	41	41	39	38	36
Employees ²	1,000	780	840	566	494	491	503	480	457	397
Compensation	Mill. dol.	4,894	4,793	5,711	7,475	9,701	10,904	11,318	11,650	11,021
Mileage:										
Railroad line owned ³	1,000	218	212	206	199	191	185	179	168	(NA)
Railroad track owned ⁴	1,000	359	345	336	324	310	300	290	278	(NA)
Equipment:										
Locomotives in service	1,000	29,080	27,816	27,086	28,210	27,400	28,097	28,396	27,808	27,073
Average horsepower	1,000 lb.	(NA)	(NA)	1,926	2,121	2,140	2,188	2,302	2,326	(NA)
Cars in service:										
Passenger-train	28,305	21,327	11,177	6,471	4,493	4,241	4,347	3,945	3,736	
Freight train ⁵	1,000	1,965	1,801	1,784	1,724	1,653	1,700	1,711	1,673	1,588
Average capacity ⁶	Tons	55.4	59.7	67.1	72.9	76.9	77.7	78.5	80.5	81.7
Income and expenses:										
Operating revenues	Mill. dol.	9,514	10,208	11,992	16,402	21,721	25,219	28,103	30,899	27,504
Operating expenses	Mill. dol.	7,565	7,850	11,478	15,936	21,043	23,994	26,250	28,587	26,480
Tax accruals	Mill. dol.	999	917	1,069	1,706	2,142	2,412	2,578	3,330	2,508
Interest on funded debt	Mill. dol.	313	332	497	623	739	789	933	1,056	1,019
Net income	Mill. dol.	445	815	227	144	307	938	1,192	2,041	1,152
Net railway operating income	Mill. dol.	584	962	486	351	427	837	1,312	1,361	742
Ratio of return on average net investment	Percent	2.13	3.69	1.73	1.20	1.52	2.87	4.13	3.98	2.11
Balance sheet:										
Total property investment	Mill. dol.	31,802	31,532	38,213	40,344	38,935	40,498	43,923	46,619	47,241
Accrued depreciation and amortization	Mill. dol.	8,465	7,711	10,027	10,605	10,141	10,227	10,706	11,622	11,980
Net investment	Mill. dol.	23,336	23,821	28,186	29,740	28,794	30,271	33,217	34,997	35,261
Shareholder's equity	Mill. dol.	17,313	17,747	17,323	14,942	16,175	17,796	19,860	21,253	21,349
Net working capital	Mill. dol.	678	627	—59	68	603	555	897	1,692	1,372
Cash dividends	Mill. dol.	385	471	421	434	503	563	610	662	⁷ 1,078
Passenger service:										
Passengers carried	Mill.	326	299	284	269	281	295	300	(NA)	(NA)
Passenger-miles	Mill.	21,258	17,388	10,771	9,942	10,222	11,200	10,995	(NA)	(NA)
Commutation	Mill.	4,197	4,128	4,592	4,513	4,686	4,835	5,070	(NA)	(NA)
Coach	Mill.	13,422	11,069	5,414	4,927	5,088	5,876	5,504	(NA)	(NA)
Parlor and sleeping car	Mill.	3,643	2,191	765	502	467	489	421	(NA)	(NA)
Passenger revenue	Mill. dol.	640	553	420	536	608	702	807	(NA)	(NA)
Revenue per passenger-mile	Cents	3.011	3.182	3.914	5.396	5.947	6.270	7.336	(NA)	(NA)
Average journey per passenger	Miles	65	57	38	37	36	38	37	(NA)	(NA)
Freight service:										
Freight revenue	Mill. dol.	8,025	8,835	10,922	15,390	20,236	23,447	26,200	28,925	25,627
Revenue-tons originated	Mill.	1,241	1,387	1,485	1,395	1,390	1,502	1,492	1,453	1,269
Tons carried one mile	Bil.	572	698	765	754	858	914	919	910	796
Revenue ton-miles per mile of road	1,000	2,609	3,290	3,652	3,666	4,471	4,979	5,133	5,142	4,802
Revenue per ton-mile	Cents	1.403	1.266	1.428	2.041	2.358	2.599	2.852	3.176	3.212
Haul per ton, U.S. as a system	Miles	442	477	490	516	572	580	590	600	604
Accidents: ⁸										
Persons killed	Number	2,248	2,399	2,255	1,560	1,646	1,429	1,417	1,284	(NA)
Persons injured	Number	19,577	25,789	21,327	54,306	72,545	74,126	62,246	53,003	(NA)

NA Not available. ¹ See text, p. 604 for definitions of class I and class II. ² Average mid-month count. ³ Represents the aggregate length of roadway of all line-haul railroads. Excludes yard tracks, sidings, and parallel lines. ⁴ Includes multiple main tracks, yard tracks, and sidings owned by both line-haul and switching and terminal companies. ⁵ Includes cars owned by all railroads, private car companies, and shippers. ⁶ Class I railroads only. ⁷ Preliminary. ⁸ Includes highway grade crossing casualties. Beginning 1975, not comparable with previous years due to change in requirements for reporting injuries.

Source: Association of American Railroads, *Yearbook of Railroad Facts*, and *Statistics of Railroads of Class I*, annual. Accident data: 1980 and 1965, U.S. Interstate Commerce Commission, *Accident Bulletin*, beginning 1970, U.S. Federal Railroad Administration, *Accident Bulletin*, annual.

No. 1089. RAILROADS, CLASS I LINE-HAUL—FINANCIAL SUMMARY: 1960 TO 1982

[In millions of dollars, except percent. Minus sign (—) indicates deficit. Data prior to 1978 have been restated to conform with revised Uniform System of Accounts. See also *Historical Statistics, Colonial Times to 1970*, series Q 364–366 and Q 378]

ITEM	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981	1982, prel.
Operating revenues.....	9,514	10,208	11,992	16,402	18,536	20,080	21,721	25,219	28,103	30,889	27,504
Freight.....	8,456	9,223	11,106	15,390	17,400	18,892	20,236	23,447	26,200	28,925	25,827
Passenger.....	640	553	420	297	327	337	358	382	438	534	573
Other.....	417	431	466	715	809	861	1,130	1,380	1,464	1,430	1,103
Operating expenses.....	7,565	7,850	11,478	15,938	17,881	19,534	21,043	23,884	25,250	28,567	26,490
Net revenue from railway operations.....	1,949	2,358	514	466	655	557	678	1,225	1,853	2,312	1,013
Total income.....	2,295	2,724	994	1,094	1,358	1,353	1,623	2,397	3,167	4,425	2,680
Income taxes on ordinary income ¹	203	164	88	58	153	60	183	199	291	45	58
Net income (ordinary).....	445	815	227	144	355	326	307	938	1,192	2,041	1,152
Net railway operating income.....	538	962	486	351	452	343	427	837	1,312	1,361	742
Rate of return (percent).....	2.13	3.59	1.73	1.20	1.60	1.24	1.52	2.87	4.13	3.98	2.11
Shareowners' equity.....	17,313	17,747	17,323	14,942	15,230	15,727	16,175	17,796	19,860	21,253	21,349
Net working capital ²	678	172	—59	68	343	571	603	555	897	1,692	1,372
Cash dividends.....	385	471	421	434	444	497	503	563	610	662	1,078
Gross capital expenditures.....	919	1,631	1,351	1,790	1,725	2,290	2,738	3,324	3,621	2,750	1,975
Equipment.....	633	1,304	993	1,303	1,175	1,540	1,883	2,285	2,346	1,502	713
Roadway and structures.....	286	327	358	486	550	751	855	1,039	1,275	1,248	1,262

¹ Includes State income taxes beginning 1976. ² Represents credit. ³ Current assets minus current liabilities, including debt due within one year.

Source: Association of American Railroads, Washington, D.C., *Statistics of Railroads of Class I*, annual, and *Yearbook of Railroad Facts*.

No. 1090. RAILROADS, CLASS I LINE-HAUL—SELECTED FREIGHT STATISTICS: 1960 TO 1981

[Excludes switching and terminal roads. See text, p. 604, for definition of class I. See *Historical Statistics, Colonial Times to 1970*, series Q 319, for train-miles per train-hour]

ITEM	Unit	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981
Average miles of road operated.....	1,000	219	212	209	206	205	198	197	192	183	179	177
Freight revenue.....	Bil. dol.	8.0	8.8	10.9	15.8	15.4	17.4	18.9	20.3	23.6	26.2	26.9
Per ton-mile.....	Cents	1.40	1.27	1.43	1.85	2.04	2.20	2.29	2.37	2.59	2.83	3.18
Per ton originated.....	Dollars	6.26	6.11	7.67	10.70	11.40	12.75	13.90	14.95	16.17	18.05	20.18
Revenue freight:												
Tons originated.....	Millions	1,241	1,387	1,485	1,530	1,395	1,370	1,395	1,390	1,502	1,492	1,453
Tons carried.....	Millions	2,291	2,539	2,616	2,716	2,437	2,448	2,439	2,217	2,463	2,434	2,386
Revenue ton-miles.....	Billions	572	698	765	851	754	794	826	858	914	919	910
Average haul.....	Miles	239	257	292	311	309	324	339	371	366	377	381
Train miles.....	Millions	405	421	427	469	402	425	428	433	438	428	408
Freight car miles, loaded ¹	Billions	17.3	17.9	17.3	17.6	15.1	15.8	16.3	15.9	15.8	16.2	15.4
Empty.....	Billions	10.9	11.4	12.6	13.1	12.5	12.7	12.4	11.1	11.5	13.1	12.6
Net ton-miles per train-mile ¹	Number	1,466	1,683	1,820	1,875	1,938	2,232	2,029	2,029	2,096	2,175	2,263
Net ton-miles per loaded car-mile ¹	Number	33.9	39.7	44.9	50.1	51.7	59.9	53.2	55.1	57.9	63.5	67.1
Train-miles per train-hour.....	Miles	19.5	20.1	20.1	19.9	20.0	20.1	19.8	19.3	17.2	18.2	19.0

¹ Revenue and nonrevenue freight.

Source: 1960–1978, U.S. Interstate Commerce Commission, *Annual Report; Transport Statistics in the United States*, Part 1, annual, and related quarterly reports; *Financial and Operating Statistics, Class I Railroads*, Statement No. 100, semiannual, and unpublished data; thereafter, Association of American Railroads, Washington, D.C., *Yearbook of Railroad Facts*, annual.

No. 1091. RAILROADS, CLASS I—CARS OF REVENUE FREIGHT LOADED, 1960 TO 1982, AND BY COMMODITY GROUP, 1981 AND 1982

[In thousands. Figures are 52-week totals. Data for 1978–82 include 12 class II railroads which were class I in 1977. See text, p. 604, for definition of class I. N.e.c.=Not elsewhere classified]

YEAR	CARLOADS		COMMODITY GROUP	CARLOADS		COMMODITY GROUP	CARLOADS	
	Total	Piggy-back		1981	1982		1981	1982
1960.....	30,441	554	Coal.....	5,762	5,660	Crushed stone, gravel, sand.....	620	468
1965.....	29,248	1,077	Metallic ores.....	1,607	824	Nonmetallic minerals, n.e.c.....	675	503
1970.....	27,160	1,450	Chemicals, allied products.....	1,333	1,116	Waste and scrap materials.....	608	405
1974.....	26,184	1,610	Grain.....	1,352	1,267	Lumber, wood products (exc. furniture), n.e.c.....	396	305
1975.....	23,217	1,308	Motor vehicles and equipment.....	809	713	Forwarder and shipper association traffic.....	493	429
1976.....	23,457	1,506	Pulp, paper, allied products.....	991	828	Coke.....	330	233
1977.....	23,173	1,689	Primary forest products.....	939	757	Petroleum products.....	269	243
1978.....	23,355	1,841	Food and kindred products, n.e.c.....	785	682	Farm products, exc. grain.....	222	217
1979.....	23,892	1,858	Grain mill products.....	738	620	Less than carload.....	12	11
1980.....	22,598	1,661	Metals and products.....	786	458	All other carloads.....	2,199	2,304
1981.....	21,613	1,723	Stone, clay, and glass products.....	680	509			
1982.....	18,550	1,920						

Source: Association of American Railroads, Washington, D.C., *Cars of Revenue Freight Loaded*, annual.

NO. 1092. RAILROADS, CLASS I LINE-HAUL—REVENUE FREIGHT ORIGINATED, BY COMMODITY GROUP: 1975 TO 1981

[See *Historical Statistics, Colonial Times to 1970*, series Q 332, for total carloads originated]

COMMODITY GROUP	CARLOADS (1,000)				TONS (mil.)				GROSS REVENUE (mil. dol.)			
	1975	1979	1980	1981	1975	1979	1980	1981	1975	1979	1980	1981
Total ¹	22,930	23,409	22,223	21,343	1,395.1	1,502.1	1,492.4	1,453.0	15,899	24,283	26,938	29,590
Coal	4,844	5,329	5,789	5,835	407.6	473.8	522.1	527.6	2,146	3,872	4,956	5,977
Farm products	1,873	1,721	1,866	1,837	134.4	138.5	156.1	139.9	1,472	2,101	2,801	2,621
Food and kindred products	2,154	1,348	1,767	1,557	100.2	93.2	91.9	82.8	1,822	2,421	2,837	2,928
Metallic ores	1,338	1,480	1,258	1,355	106.4	119.9	105.4	113.8	468	621	597	723
Chemicals, allied products	1,313	1,471	1,322	1,385	91.4	112.4	108.3	105.9	1,681	2,739	2,946	3,228
Nonmetallic minerals ²	1,895	1,592	1,474	1,272	150.6	132.3	124.8	110.0	596	829	948	1,036
Lumber and wood prod. ³	1,615	1,565	1,384	1,254	88.6	93.1	85.5	80.3	1,066	1,546	1,543	1,559
Transportation equipment	1,135	1,278	1,004	939	27.3	30.6	23.9	22.2	1,283	2,167	1,917	2,120
Pulp, paper, allied products	1,015	977	954	899	40.6	42.4	42.1	41.6	977	1,445	1,652	1,848
Primary metal products	788	913	756	760	51.4	63.9	52.7	53.3	848	1,291	1,332	1,559
Stone, clay, and glass prod.	906	920	776	690	56.8	61.5	53.7	49.2	651	1,018	1,025	1,114
Waste and scrap materials	744	713	632	610	38.2	38.5	34.3	34.1	359	479	513	573
Petroleum and coal prod.	787	716	596	607	45.8	43.9	38.1	39.0	573	835	865	1,019
Machinery, exc. electrical	156	90	77	66	3.6	2.3	2.0	1.7	200	174	176	176
Fabricated metal prod. ⁴	244	87	72	55	8.2	2.3	2.0	1.7	221	117	110	105

¹ Includes commodity groups and small packaged freight shipments, not shown separately.

² Except fuels.

³ Except furniture.

⁴ Except ordnance, machinery, and transport.

Source: 1975 U.S. Interstate Commerce Commission, *Freight Commodity Statistics—Class I Railroads in the United States*, annual; thereafter, Association of American Railroads, Washington, D.C. *Freight Commodity Statistics*, annual.

NO. 1093. PRODUCER PRICE INDEXES FOR TOTAL RAILROAD FREIGHT: 1970 TO 1982

[1969=100. Reflects prices for shipping a fixed set of commodities under specified and unchanging conditions]

COMMODITY	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Total railroad freight	108.8	126.1	129.3	149.7	169.4	186.6	199.1	213.1	243.3	284.5	327.6	351.4
Annual percent change	8.8	17.7	2.5	15.8	13.2	10.2	6.7	7.0	14.2	16.9	15.1	7.3
Farm products	108.3	123.5	125.2	145.9	165.0	182.7	191.3	204.9	235.9	275.6	315.0	337.2
Metallic ores	108.9	128.1	133.0	155.0	178.4	197.8	211.1	227.3	263.5	307.9	355.3	387.3
Coal	108.6	128.8	132.5	154.8	177.5	199.6	211.6	228.2	266.2	306.3	350.7	385.2
Nonmetallic minerals	108.0	125.6	130.0	150.5	172.4	191.7	205.5	221.2	257.5	308.1	358.6	398.1
Food products	108.9	126.2	128.8	148.9	168.6	185.1	195.3	210.1	239.2	283.1	329.4	353.2
Wood or lumber products	108.4	123.3	127.4	147.4	163.6	177.9	191.7	205.7	233.4	273.1	326.2	350.7
Pulp, paper, and allied products	108.9	124.1	124.5	143.5	162.7	178.1	186.5	197.1	223.7	264.8	305.3	326.9
Chemical or allied products	108.6	124.8	127.6	147.9	168.5	183.8	197.1	208.5	235.5	274.3	316.2	340.1
Clay, concrete, glass, or stone products	109.4	126.7	131.2	153.1	174.5	192.2	206.4	223.4	255.3	301.8	351.9	378.5
Primary metal products	109.5	128.5	132.1	153.3	174.8	191.6	205.0	217.9	247.1	284.3	323.5	345.5
Transportation equipment	109.4	127.3	131.9	153.5	173.5	190.2	204.3	217.6	246.2	281.9	316.2	326.4

¹ Change from 1970.

Source: U.S. Bureau of Labor Statistics, *Producer Prices and Price Indexes*, monthly.

NO. 1094. CLASS I RAILROADS—EMPLOYMENT AND EQUIPMENT: 1960 TO 1981

[For definition of class I, see text, p. 604. See also *Historical Statistics, Colonial Times to 1970*, Series Q 301-305 and Q 386-399]

ITEM	Unit	1960 ¹	1965 ¹	1970 ¹	1975	1976	1977	1978	1979	1980	1981
Employees, average	1,000	780	640	566	494	486	501	480	483	459	436
Compensation, total	Mil. dol.	4,894	4,793	5,557	7,563	8,494	9,224	9,566	10,904	11,318	11,651
Average per hour	Dollars	2.72	3.06	4.14	6.39	7.09	7.66	8.43	9.22	10.21	11.14
Average per year	Dollars	6,444	7,490	10,086	15,324	17,144	18,518	20,573	22,585	24,659	26,698
Locomotives	1,000	31.2	30.1	27.1	28.2	27.6	27.7	27.4	28.1	28.4	28.1
New units installed	Number	399	1,387	1,029	802	488	820	1,224	1,719	1,483	522
Freight cars	1,000	1,690	1,515	1,454	1,359	1,332	1,297	1,227	1,217	1,168	1,111
Box	1,000	700	593	590	475	449	422	384	380	347	314
Gondola and hopper	1,000	891	754	724	680	675	662	646	645	636	621
Other	1,000	159	168	140	204	208	203	197	192	185	176
Aggregate capacity	Mil. tons	91.9	88.3	95.6	99.2	98.3	97.2	94.4	94.6	92.7	89.3
Average capacity	Tons	55.4	59.8	67.1	72.9	73.8	75.5	76.9	77.7	79.4	80.4
New units installed	1,000	54.0	62.9	56.0	41.7	30.8	27.1	28.0	28.6	31.2	20.9
Passenger-train cars	1,000	25.7	20.0	11.2	6.5	5.5	5.5	4.5	4.2	4.3	3.9

¹ Includes other classes and private owners.

Source: Association of American Railroads, Washington, D.C., *Yearbook of Railroad Facts*, and U.S. Interstate Commerce Commission, *Transport Statistics in the United States*, Part 1, annual, and *Statement No. A-300*, annual.

NO. 1095. RAILROAD ACCIDENTS—DEATHS AND INJURIES: 1960 TO 1982

[Casualty data prior to 1975 cover only those cases where a person lost time from that person's job or other usual activity. Beginning 1975, covers cases with lost time, those requiring medical treatment beyond first aid, termination of employment, transfer to another job, loss of consciousness, and occupational illnesses. Prior to 1975, cases where death occurred more than 24 hours after the injury were classified as injuries; beginning 1975 they were classified as deaths. See also *Historical Statistics, Colonial Times to 1970*, series Q 385-387 and Q 400-401]

TYPE OF CASUALTY	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981	1982
Persons killed, total	2,248	2,399	2,225	1,560	1,830	1,530	1,646	1,429	1,417	1,284	1,119
in highway grade crossing accidents ¹	1,964	1,534	1,440	978	1,114	944	1,021	834	788	697	580
Involving motor vehicles ²	1,254	1,434	1,337	765	956	822	908	704	682	593	510
Passengers on trains.....	32	11	8	8	5	4	13	6	4	4	9
Railroad employees on duty.....	190	172	155	110	100	114	122	101	97	65	78
Trespassers and other.....	2,026	2,216	2,062	1,442	1,525	1,412	1,511	1,322	1,316	1,215	932
Persons injured	19,577	25,789	21,327	54,306	65,331	67,867	72,545	74,126	62,246	53,003	40,275
in highway grade crossing accidents ¹	3,424	3,801	3,336	4,168	4,831	4,469	4,266	4,172	3,662	3,121	2,508
Involving motor vehicles ²	3,277	3,663	3,205	3,568	4,307	4,455	4,087	3,938	3,486	2,975	2,386
Passengers on trains.....	1,463	1,189	489	1,307	998	503	1,252	1,001	593	409	387
Railroad employees on duty.....	13,245	18,644	15,743	47,318	57,889	61,028	65,071	66,924	56,331	47,838	36,032
Trespassers and other.....	4,869	5,956	5,085	5,681	6,444	6,336	6,222	6,201	5,322	4,756	3,856

¹ Accidents at public crossings only. ² Excludes motorcycles.

Source: 1960 and 1965, U.S. Interstate Commerce Commission and, thereafter, U.S. Federal Railroad Administration, *Accident Bulletin*, annual, and *Rail-Highway Crossing Accident/Incidental and Inventory Bulletin*, annual.

NO. 1096. PETROLEUM PIPELINE COMPANIES—CHARACTERISTICS: 1972 TO 1981

[Covers pipeline companies operating in interstate commerce and subject to jurisdiction of Interstate Commerce Commission from 1972 to 1976, and Federal Energy Regulatory Commission beginning 1977]

ITEM	Unit	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Miles of pipeline, total.....	1,000	172.1	170.1	169.0	170.7	169.9	154.5	161.6	169.8	172.7	172.8
Gathering lines.....	1,000	42.3	42.9	40.7	40.4	37.6	34.7	36.5	36.9	36.3	36.6
Trunk lines.....	1,000	129.8	127.2	128.3	130.3	132.3	119.8	125.1	132.9	136.4	134.3
Total deliveries.....	Mil. bbl.	8,847	9,416	9,132	9,391	9,742	10,019	10,768	11,140	10,600	10,223
Crude oil.....	Mil. bbl.	5,510	5,760	5,698	5,729	5,996	6,089	6,550	6,728	6,405	6,070
Products.....	Mil. bbl.	3,337	3,656	3,434	3,662	3,746	3,930	4,218	4,412	4,195	4,153
Total trunk line traffic.....	Bil. bbl.-miles	2,687	2,502	2,632	2,892	2,918	3,895	3,723	3,577	3,405	3,554
Crude oil.....	Bil. bbl.-miles	1,520	1,262	1,455	1,551	1,639	2,267	2,031	1,946	1,948	1,813
Products.....	Bil. bbl.-miles	1,167	1,240	1,176	1,341	1,279	1,627	1,691	1,631	1,456	1,740
Carrier property value.....	Mil. dol.	6,749	7,000	8,038	10,740	13,684	16,736	17,654	18,990	19,752	21,250
Operating revenues.....	Mil. dol.	1,338	1,438	1,579	1,869	2,132	2,818	4,990	5,761	6,356	6,678
Net income.....	Mil. dol.	415	408	330	456	595	478	1,696	1,648	1,912	2,031

Source: PennWell Publishing Co., Tulsa Oklahoma, *Oil and Gas Journal*, November 22, 1982 and earlier issues. (Copyright.)

NO. 1097. INTERSTATE NATURAL GAS PIPELINE COMPANIES—SUMMARY: 1960 TO 1981

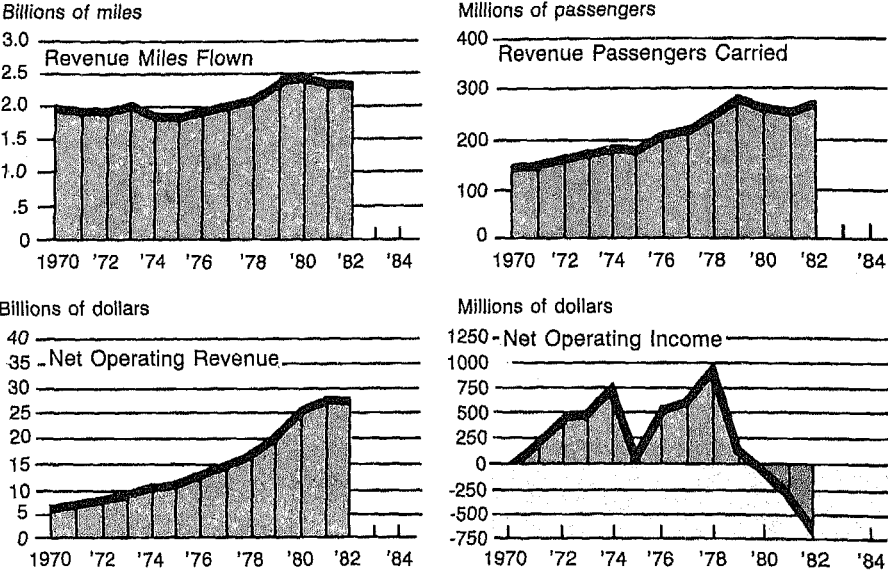
[Excludes companies whose operations are limited to production of natural gas and sales of gas at or near the point of production. Covers classes A and B interstate natural gas pipeline companies with annual gas operating revenues of \$1,000,000 or more]

ITEM	Unit	1960	1965	1970	1975	1977	1978	1979	1980	1981
Sales	Tril. cu. ft.	11.8	14.7	19.9	16.5	15.7	16.2	17.7	17.3	17.9
Residential.....	Tril. cu. ft.	.6	.6	.6	.5	.6	.6	.6	.6	.7
Commercial, industrial.....	Tril. cu. ft.	2.4	2.5	2.9	1.9	1.9	1.9	2.1	2.3	2.5
For resale.....	Tril. cu. ft.	8.7	11.6	16.3	14.0	13.2	13.6	14.8	14.4	14.5
Operating revenues.....	Mil. dol.	4,571	5,584	7,955	14,278	22,289	25,966	35,509	45,271	55,710
From sales ¹	Mil. dol.	4,352	5,346	7,576	13,451	21,126	24,832	33,990	43,222	53,272
Residential.....	Mil. dol.	537	488	622	756	1,316	1,520	1,754	2,001	2,927
Commercial, industrial.....	Mil. dol.	731	793	1,025	1,646	2,842	3,272	4,627	5,950	8,283
For resale.....	Mil. dol.	3,046	4,043	5,898	11,003	16,912	19,977	27,597	35,271	42,062
From transportation of gas to others.....	Mil. dol.	100	113	188	387	559	619	772	924	1,055
Other.....	Mil. dol.	119	126	191	440	604	511	757	1,125	1,389
Operation, maintenance expenses.....	Mil. dol.	3,091	3,673	5,602	10,374	17,598	20,954	29,867	38,154	49,307
Production.....	Mil. dol.	2,472	3,142	4,546	8,573	15,098	18,048	26,157	34,742	43,733
Storage.....	Mil. dol.	21	39	53	140	205	254	275	303	367
Transmission.....	Mil. dol.	306	379	534	912	1,300	1,519	2,077	2,547	3,278
Distribution.....	Mil. dol.	75	65	92	122	178	193	217	245	312
Administrative, general, and other.....	Mil. dol.	216	248	368	627	817	940	1,141	1,317	1,617
Pipeline mileage	1,000	135.5	154.4	182.0	187.2	189.9	190.7	193.4	192.4	186.8
Field lines.....	1,000	42.5	47.7	51.6	57.1	60.2	63.0	66.2	69.7	73.0
Storage.....	1,000	2.9	3.1	3.5	4.2	4.2	4.3	4.4	4.2	4.3

¹ Includes other ultimate customers not shown separately.

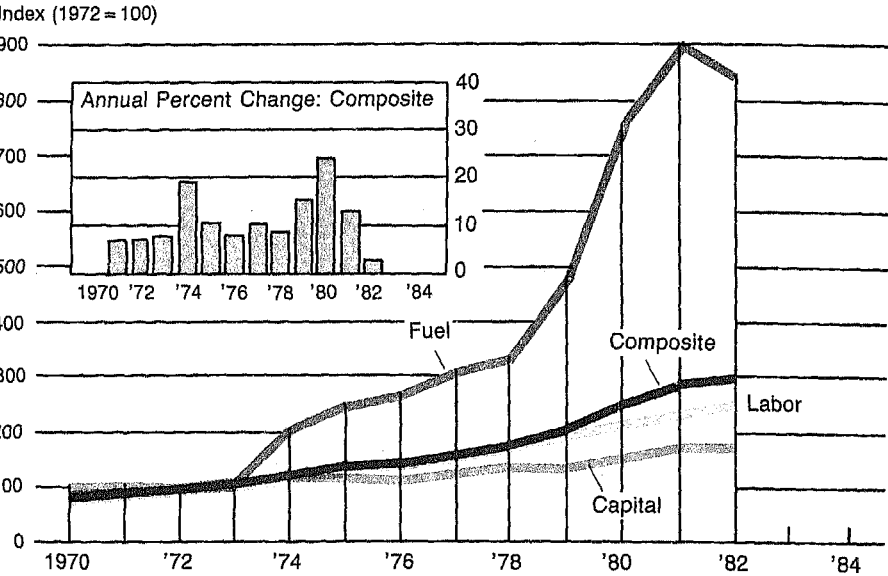
Source: 1960-1975, U.S. Federal Power Commission and, thereafter, U.S. Energy Information Administration, *Statistics of Interstate Natural Gas Pipeline Companies*, annual.

Figure 23.1
Domestic Scheduled Air Carriers: 1970 to 1982

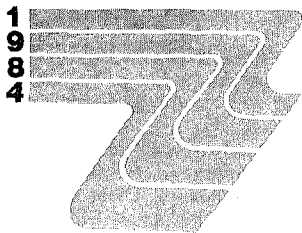


Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 1098 and 1099.

Figure 23.2
Airline Cost Indexes: 1970 to 1982



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1103.



Transportation— Air and Water

This section presents statistics on civil air transportation, both passenger and cargo, and on water transportation, including inland waterways, oceanborne commerce, the merchant marine, cargo and vessel tonnages, and shipbuilding. Comparative data on various types of transportation carriers are presented in section 22.

Principal sources of these data are the annual *FAA Statistical Handbook of Aviation* issued by the Federal Aviation Administration (FAA); the annual *Waterborne Commerce of the United States* issued by the Corps of Engineers of the Department of the Army; the monthly and annual issues of *U.S. Waterborne Exports and General Imports*, and *U.S. Airborne Exports and General Imports*, the annual *Vessel Entrances and Clearances*, and the monthly *Highlights of U.S. Export and Import Trade*, issued by the Bureau of the Census. In addition, the Bureau of the Census in its commodity transportation survey (part of the census of transportation, taken every five years, for years ending in "2" and "7") provides data on the type, weight, and value of commodities shipped by manufacturing establishments in the United States, by means of transportation, origin, and destination.

Air transportation data are also presented annually by the Air Transport Association of America, Washington, D.C. in *Air Transport Facts and Figures*. Additional sources of data on water transportation include *A Statistical Analysis of the World's Merchant Fleets*, issued periodically by the U.S. Maritime Administration; *The Bulletin*, issued monthly by the American Bureau of Shipping, New York; and the *Annual Summary of Merchant Ships Completed in the World* and the *Register Book*, published by Lloyd's Register of Shipping, London, England.

Civil aviation.—Federal promotion and regulation of civil aviation are carried out by the FAA and the Civil Aeronautics Board (CAB). The CAB promotes and regulates the civil air transportation industry within the United States and between the United States and foreign countries. The Board grants licenses to provide air transportation service, approves or disapproves proposed rates and fares, and approves or disapproves proposed agreements and corporate relationships involving air carriers. The responsibility for investigation of aviation accidents resides with the National Transportation Safety Board.

The principal activities of the FAA include: The promotion of air safety; controlling the use of navigable airspace; prescribing regulations dealing with the competency of airmen, airworthiness of aircraft, and air traffic control; operation of air route traffic control centers, airport traffic control towers, and flight service stations; the design, construction, maintenance, and inspection of navigation, traffic control, and communications equipment for the airways; and the development of general aviation.

The CAB publishes monthly and quarterly financial and traffic statistical data for the certificated route air carriers. The FAA publishes annually data on the use of airway facilities; data related to the location of airmen, aircraft, and airports; the volume of activity in the field of non-air carrier (general aviation) flying; and aircraft production and registration.

General aviation comprises all civil flying (including such commercial operations as small demand air taxis, agriculture application, powerline patrol, etc.) but excludes certificated route air carriers, supplemental operators, large-aircraft commercial operators and commuter airlines.

Air carriers and service.—The CAB issues "certificates of public convenience and necessity" in two categories: *Certificated route air carriers* (often referred to as "scheduled airlines") and *supplemental (or charter) air carriers* (see footnote 3, table 1105). Certificated route air carriers are passenger/cargo and all-cargo carriers which are authorized to perform *scheduled service* over specified routes according to published flight schedules. Certificated route carriers are, however, allowed to perform some *nonscheduled service* (i.e., revenue flights outside of the regular schedule, such as charter flights, and all nonrevenue flights incident to such flights).

Vessel shipments, entrances, and clearances.—Shipments by dry cargo vessels comprise shipments on all types of watercraft, except tanker vessels; shipments by tanker vessels comprise all types of cargo, liquid and dry, carried by tanker vessels.

A vessel is reported as entered only at the first port which it enters in the United States whether or not cargo is unloaded at that port. A vessel is reported as cleared only at the last port at which clearance is made to a foreign port, whether or not it takes on cargo. Army and Navy vessels entering or clearing without commercial cargo are not included in the figures.

Units of measurement.—Cargo (or freight) tonnage and shipping weight both represent the gross weight of the cargo including the weight of containers, wrappings, crates, etc. However, shipping weight excludes lift and cargo vans and similar substantial outer containers. Other tonnage figures generally refer to stowing capacity of vessels, 100 cubic feet being called 1 ton. Gross tonnage comprises the space within the frames and the ceiling of the hull, together with those closed-in spaces above deck available for cargo, stores, passengers, or crew, with certain minor exceptions. Net or registered tonnage is the gross tonnage less the spaces occupied by the propelling machinery, fuel, crew quarters, master's cabin, and navigation spaces. Substantially, it represents space available for cargo and passengers. The net tonnage capacity of a ship may bear little relation to weight of cargo. Deadweight tonnage is the weight in long tons required to depress a vessel from light water line (that is, with only the machinery and equipment on board) to load line. It is, therefore, the weight of the cargo, fuel, etc., which a vessel is designed to carry with safety.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix I.

NO. 1098. CERTIFICATED ROUTE PASSENGER/CARGO AIR CARRIERS—NUMBER, OPERATING REVENUES, AND EXPENSES: 1960 TO 1982

[In millions of dollars, except number of carriers. 1960-1979, includes scheduled and charter operations. Beginning 1980, includes all cargo carriers. Minus sign (—) denotes loss. See also headnote, table 1099, and *Historical Statistics, Colonial Times to 1970*, series Q 591-603]

ITEM	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981 ¹	1982, ¹ prel.
Number of air carriers.....	55	50	39	33	33	33	35	49	63	96	96
DOMESTIC											
Revenue.....	2,129	3,609	7,131	11,911	13,789	15,690	17,943	21,337	26,404	28,788	28,730
Passenger.....	1,860	3,180	6,359	10,290	12,104	13,772	15,753	18,930	23,317	25,504	25,442
Mail (including subsidy).....	113	158	205	247	292	355	334	413	530	591	571
Express and freight.....	103	231	472	702	835	978	1,107	1,184	1,582	1,859	1,504
Other.....	53	40	94	672	558	585	749	810	974	1,034	1,213
Expenses.....	2,091	3,185	7,128	11,781	13,213	15,036	16,848	21,213	26,409	29,051	29,466
Flying operations.....	801	855	2,098	3,869	4,401	5,229	5,577	7,867	11,029	12,037	11,529
Maintenance.....	438	640	1,127	1,595	1,802	1,986	2,125	2,421	2,758	2,821	2,710
General services and administration.....	824	1,354	3,157	5,050	5,774	6,536	7,556	9,120	10,545	11,943	12,813
Passenger service.....	(NA)	280	707	1,116	1,260	1,461	1,711	2,091	2,329	2,522	2,671
Aircraft and traffic servicing.....	(NA)	554	1,298	2,125	2,412	2,693	3,063	3,619	4,051	4,497	4,684
Promotion and sales.....	(NA)	374	809	1,265	1,490	1,708	2,029	2,547	3,096	3,708	4,150
General and administrative.....	(NA)	145	344	544	612	674	754	863	1,069	1,216	1,323
Depreciation and amortization.....	229	316	745	883	920	960	1,213	1,352	1,560	1,723	1,876
Transport related.....	(NA)	(NA)	(NA)	383	316	325	477	453	517	526	537
Net operating income.....	38	444	3	129	576	654	995	123	-6	-264	-736
INTERNATIONAL											
Revenue.....	685	1,211	1,913	3,063	3,316	3,774	4,332	5,191	6,543	6,390	6,435
Passenger.....	528	954	1,553	2,435	2,638	3,019	3,494	4,226	4,984	4,916	4,959
Mail (including subsidy).....	56	91	110	97	85	88	92	107	175	165	177
Express and freight.....	59	140	209	381	403	444	457	534	1,011	984	989
Other.....	42	26	41	150	190	224	288	325	372	325	310
Expenses.....	639	1,001	1,894	3,059	3,182	3,552	4,008	5,105	6,766	6,574	6,454
Flying operations.....	180	263	515	1,050	1,069	1,170	1,211	1,795	2,775	2,757	2,596
Maintenance.....	102	145	241	383	368	414	459	521	616	540	508
General services and administration.....	280	493	950	1,345	1,431	1,609	1,888	2,289	2,611	2,752	2,803
Passenger service.....	(NA)	98	223	287	296	347	422	531	600	583	574
Aircraft and traffic servicing.....	(NA)	162	332	510	536	598	676	820	1,049	932	891
Promotion and sales.....	(NA)	172	293	399	451	506	599	749	917	945	983
General and administrative.....	(NA)	61	103	149	148	158	191	189	246	292	375
Depreciation and amortization.....	78	100	188	212	193	238	303	327	385	382	395
Transport related.....	(NA)	(NA)	(NA)	88	101	120	148	173	178	144	152
Net operating income.....	45	210	19	4	133	222	324	86	-223	-184	-19

NA Not available. ¹ Excludes carriers that report system total only (revenues in 1982 of \$848 million; expenditures of \$795 million).

Source: U.S. Federal Aviation Administration. From data supplied by U.S. Civil Aeronautics Board, *CAB Air Carrier Financial Data*, annual.

NO. 1099. CERTIFICATED ROUTE AIR CARRIERS—SUMMARY: 1960 TO 1982

[As of Dec. 31 or for calendar years. See text, p. 631. Operations between conterminous U.S. and Hawaii (through 1965), Puerto Rico, and outlying areas included with international. Intra-Alaska included with domestic carriers and Mainland Alaska with international, as follows: Number of operators and traffic data, fuel and financial data, and personnel data, 1960 and 1965. Beginning 1970, Alaska and Hawaii included in domestic. See also *Historical Statistics, Colonial Times to 1970*, series Q 577-590 and Q 624-633]

ITEM	Unit	1960	1965	1970	1975	1978	1979	1980	1981	1982
Domestic operators ¹	Number	43	39	35	33	34	52	63	98	98
International operators ¹	Number	12	11	6	2	2				
Employment, total ²	1,000	166	211	297	290	329	341	371	350	330
Pilots, copilots, and other flight personnel	1,000	17	22	33	32	36	37	39	37	35
Flight attendants	1,000	11	17	34	39	48	53	57	55	51
Mechanics	1,000	34	42	48	45	44	45	45	46	43
Aircraft and traffic servicing personnel	1,000	43	58	84	83	96	98	122	95	88
Other	1,000	61	72	98	91	104	108	108	117	113
Aircraft in operation ³	Number	1,867	1,896	2,437	2,287	2,348	2,466	2,505	2,523	2,468
Fixed-wing	Number	1,842	1,875	2,421	2,260	2,345	2,466	2,505	2,523	2,468
Turbojet	Number	202	712	2,041	2,022	2,184	2,308	2,336	2,295	2,377
Two-engine	Number	-	41	519	500	579	621	652	731	863
Three-engine	Number	-	168	631	961	1,140	1,232	1,311	1,284	1,260
Four-engine	Number	202	503	891	561	465	455	373	280	254
Turboprop	Number	227	296	316	193	155	152	163	223	88
Piston	Number	1,413	867	64	45	6	6	6	5	3
Helicopters	Number	25	21	16	7	3	-	-	-	-
Average available seats: ⁴ ⁵										
Domestic	Number	65.5	89.2	110.4	130.4	140.0	139.9	143.1	147.2	153.2
International	Number	89.9	129.1	154.9	224.8	244.1	259.1	274.5	279.6	284.1
Average/hr. speed: ⁵										
Domestic	Mi. per hr.	235	314	403	403	409	406	405	403	412
International	Mi. per hr.	303	445	482	482	489	493	494	494	494
Fuel consumed: ⁶										
Gasoline	Mil. gal.	1,189	519	14	6	(⁷)	(⁷)	(⁷)	(⁷)	(⁷)
Jet fuel:										
Domestic	Mil. gal.	988	3,420	7,642	7,558	8,621	9,376	9,218	8,984	8,311
International	Mil. gal.	343	1,236	2,241	1,949	1,913	1,993	2,093	1,826	1,799
Revenue-miles flown ⁸										
Domestic	Millions	998	1,354	2,426	2,241	2,520	2,791	2,816	2,703	2,686
International	Millions	829	1,089	2,027	1,909	2,201	2,435	2,471	2,396	2,376
Revenue passengers enplaned ⁹										
Domestic	Millions	168	255	389	332	319	355	345	307	310
International	Millions	82	103	169	205	275	317	297	286	293
Domestic	Millions	56	92	153	189	254	293	273	265	273
International	Millions	6	11	16	16	21	24	24	21	20
Revenue passenger-miles flown: ⁵										
Domestic	Billions	30.6	51.9	104.1	131.7	182.7	208.9	200.8	198.7	209.5
International	Billions	8.3	16.8	27.6	31.1	44.1	53.1	54.4	50.1	49.4
Average passenger-mile rate: ⁵										
Domestic	Dollars	.061	.061	.060	.077	.085	.091	.113	.127	.121
International	Dollars	.064	.063	.050	.072	.075	.077	.075	.095	.096
Express and freight revenue, ton-miles flown ⁵										
Domestic	Millions	702	1,920	3,515	4,796	5,818	5,964	5,742	5,666	5,455
International	Millions	476	1,112	2,216	2,747	3,505	3,466	3,277	3,350	3,026
Mail, ton-miles flown: ⁵										
Domestic	Millions	135	228	715	683	807	853	949	998	1,004
International	Millions	107	265	549	426	374	372	393	376	399
Accidents (scheduled passenger service):										
Domestic, total ¹⁰ ¹¹	Number	62	55	32	21	18	14	19	25	¹⁰ 16
Fatal	Number	¹⁰ 10	6	1	2	4	4	4	4	¹⁰ 5
Fatalities ¹¹	Number	363	223	1	122	16	279	14	4	¹⁰ 235
Passenger-fatalities per 100 million passenger miles flown ¹²	Number	.9	.4	-	.081	.125	.125	.005	.001	.091
International, total	Number	5	8	7	7	1	4	(¹⁰)	(¹⁰)	(¹⁰)
Fatal	Number	2	1	1	-	-	1	(¹⁰)	(¹⁰)	(¹⁰)
Fatalities ¹¹	Number	15	30	2	-	-	73	(¹⁰)	(¹⁰)	(¹⁰)
Passenger-fatalities per 100 million passenger miles flown	Number	.1	.1	.007	-	-	.115	(¹⁰)	(¹⁰)	(¹⁰)

- Represents zero. ¹ The Airline Deregulation Act of 1978 lifted some restrictions on entering new markets. As a result there is no longer a clear distinction between domestic and international operators. Includes all cargo. ² Scheduled airlines only. Source: Air Transport Association of America, Washington, D.C., *Air Transport Facts and Figures*, annual. ³ Excludes those used for crew training and general utility purposes, or held for disposal. Beginning 1975, includes aircraft operated by the scheduled all-cargo certificated route air carriers. ⁴ Seats per aircraft mile. Passenger seat-miles divided by revenue-miles flown in passenger service. ⁵ Scheduled services of all certificated route air carriers; includes all cargo. ⁶ Includes air cargo. ⁷ Included in "Jet fuel." ⁸ Beginning 1980, international data included with domestic. ⁹ Includes mid-air collisions nonfatal to air carrier occupants (excluded in computation of fatal accidents). ¹⁰ Preliminary. ¹¹ Includes crew members.

¹² Excludes passenger deaths in dynamite accidents (29 in 1980).

Source: Except as noted, U.S. Federal Aviation Administration, *FAA Statistical Handbook of Aviation*, annual. Includes data from U.S. Civil Aeronautics Board and U.S. National Transportation Safety Board.

NO. 1100. CERTIFICATED ROUTE AIR CARRIERS—SERVICE AND TRAFFIC: 1960 TO 1982

(In millions, except as indicated)

ITEM	1960	1965	1970	1975	1978	1979	1980	1981	1982
Revenue ton-miles, all services.....	5,024	9,895	20,186	23,534	31,095	34,551	34,656	33,923	34,914
Revenue ton-miles, scheduled.....	4,729	8,885	18,166	22,186	29,679	33,390	32,603	31,949	32,762
Passenger ¹	3,777	8,672	13,171	16,281	22,678	26,202	25,519	24,889	25,904
U.S. mail.....	241	493	1,470	1,097	1,166	1,206	1,318	1,348	1,374
Foreign mail.....	9	10	12	12	14	18	24	26	29
Express.....	59	90	107	29	56	56	58	68	57
Freight.....	643	1,730	3,406	4,766	5,763	5,908	5,686	5,618	5,398
Revenue ton-miles, charter ²	296	909	2,020	1,348	1,416	1,161	2,053	1,974	2,152
Available ton-miles, all services.....	9,384	19,661	44,298	49,289	56,869	62,546	66,163	64,245	65,470
Ton-mile load factor (percent).....	53.5	50.3	45.6	47.7	54.7	55.2	52.4	52.8	53.3
Scheduled services total:									
Revenue passengers enplaned, scheduled.....	62	103	170	205	275	317	297	286	293
Revenue passenger-miles (bil.).....	39	69	132	163	237	262	255	249	259
Available seat-miles (bil.).....	66	124	265	303	369	416	433	425	439
Passenger load factor (percent).....	59.3	55.2	49.7	53.7	61.5	63.0	59.0	58.6	59.0
Revenue passenger-miles per gallon of fuel (number) ³	(NA)	(NA)	15.4	18.7	22.9	24.3	24.1	24.8	26.1
Revenue plane-miles.....	998	1,354	2,418	2,241	2,520	2,791	2,816	2,703	2,688

NA Not available. ¹A passenger ton-mile represents 1 ton of passenger weight, including free and excess baggage, transported 1 mile. ²Passenger and cargo. ³For major and national airlines; see headnote, table 1103.

Source: Air Transport Association of America, Washington, D.C., *Air Transport Facts and Figures*, annual. Data from Civil Aeronautics Board.

NO. 1101. LARGE AIR TRAFFIC HUBS—SUMMARY: 1981

[In thousands, except number of airports. For calendar year. Air traffic hubs are cities and standard metropolitan statistical areas requiring aviation services. A large hub is one which enplanes at least one percent of the total enplaned revenue passengers in all services and all operations of U.S. certificated route air carriers.]

AREA OR HUB	Air-ports ¹	AIRCRAFT DEPARTURES			Revenue passengers enplaned	ENPLANED REVENUE TONS		
		Total ²	Scheduled			Total ³	Freight and express	U.S. mail
			Number	Completed				
Total, all areas	771	5,132.8	5,224.9	5,022.9	281,331.1	4,394.6	3,158.1	1,220.8
Total, 24 large hubs.....	35	2,720.3	2,774.3	2,684.0	186,583.2	3,068.2	2,205.3	861.5
Atlanta, Ga.....	1	256.7	261.5	256.0	18,702.9	259.8	162.9	96.9
Boston, Mass.....	1	86.2	87.2	84.2	6,662.9	121.3	90.6	30.7
Chicago, Ill.....	2	256.5	265.8	254.9	16,906.6	450.7	348.2	102.5
Dallas-Ft. Worth, Tex.....	2	208.5	212.5	208.1	13,923.0	133.2	84.4	48.8
Denver, Colo.....	1	160.8	165.0	160.1	10,437.1	101.6	65.6	36.0
Detroit/Ann Arbor, Mich.....	2	82.6	84.7	79.6	4,749.8	65.5	40.4	25.1
Honolulu, Hawaii.....	1	44.9	46.3	41.3	5,442.6	104.9	83.4	20.8
Houston, Tex.....	2	115.9	118.4	115.2	7,515.8	59.0	42.7	16.3
Las Vegas, Nev.....	1	64.3	61.8	60.7	4,232.3	6.5	3.4	3.1
Los Angeles/Burbank/Long Beach, Calif.....	3	216.3	222.9	214.0	15,768.9	364.3	298.5	65.8
Miami/Ft. Lauderdale, Fla.....	2	137.8	138.3	135.1	10,018.5	145.6	121.9	23.6
Minneapolis/St. Paul, Minn.....	1	76.9	77.5	75.9	4,523.9	70.7	45.5	25.1
Newark, N.J.....	1	82.1	83.9	61.6	4,531.2	55.7	30.9	24.8
New Orleans, La.....	1	47.9	48.6	47.6	2,928.4	15.1	8.4	6.7
New York, N.Y.....	2	184.8	186.4	179.9	16,686.9	474.0	365.7	106.2
Orlando, Fla.....	1	51.5	51.8	50.9	2,866.4	22.3	18.3	4.0
Philadelphia, Pa./Camden, N.J.....	1	58.7	60.4	58.3	3,581.6	64.3	33.2	31.1
Phoenix, Ariz.....	1	61.7	62.6	60.0	3,397.9	22.6	13.3	9.3
Pittsburgh, Pa./Wheeling, W. Va.....	1	85.3	88.7	84.7	4,183.3	28.0	10.1	17.9
St. Louis, Mo.....	1	93.6	96.8	93.0	5,126.3	43.5	18.5	25.0
San Francisco/Oakland, Calif.....	2	123.7	126.1	122.4	9,624.6	223.4	168.0	55.4
Seattle/Tacoma, Wash.....	2	67.3	68.8	66.5	4,285.3	147.2	118.6	28.4
Tampa/St. Petersburg/Clearwater/Lake-land, Fla.....	1	62.3	63.3	61.9	3,184.1	21.8	13.2	8.6
Washington, D.C.....	2	113.6	114.9	111.7	7,282.7	66.8	19.4	47.4

¹ Airports serving area or hub. Airports certificated under Federal Aviation Regulation (FAR Part 139) served by scheduled and unscheduled air carriers. ² Includes completed scheduled and unscheduled. ³ Includes foreign mail, not shown separately.

Source: U.S. Federal Aviation Administration, *Airport Activity Statistics*, 1981.

NO. 1102. CIVIL FLYING—SUMMARY: 1960 TO 1982

[As of Dec. 31 or for years ending Dec. 31, except as noted. See also *Historical Statistics, Colonial Times to 1970*, series Q 604-623]

ITEM	Unit	1960	1965	1970	1975	1978	1979	1980	1981	1982
Airports in operation ¹	Number	6,881	9,566	11,261	13,251	14,574	14,746	15,161	15,478	15,831
Heliports	Number	66	401	790	1,524	1,986	2,108	2,336	2,507	2,712
Public	Number	2,780	3,570	4,260	4,573	4,751	4,761	4,814	4,798	4,805
Private	Number	4,101	5,996	7,001	8,678	9,823	9,985	10,347	10,678	11,026
Airports with runway lights	Number	2,133	2,878	3,554	4,171	4,567	4,631	4,738	4,795	4,844
Airports with paved runways	Number	1,893	2,747	3,805	4,865	5,484	5,618	5,833	5,862	6,223
Miles of Federal airways	1,000	(NA)	(NA)	324.7	403.9	605.7	615.5	615.5	568.6	566.6
Airport Improvement Program ²	Mil. dol.	82.0	59.5	50.5	339.9	539.8	624.2	639.0	442.8	407.1
Total civil aircraft	1,000	111.6	142.1	154.5	196.3	236.8	251.5	259.4	261.8	259.0
Active aircraft ³	1,000	79.8	97.7	134.5	171.2	201.3	213.9	214.8	217.2	(NA)
Air carriers, total ⁴	1,000	2.2	2.3	2.8	2.5	2.6	3.6	3.8	4.0	4.2
General aviation aircraft ⁵	1,000	76.5	95.4	131.7	168.5	198.7	210.3	211.0	213.2	(NA)
Fixed-wing aircraft:										
Multi-engine	1,000	7.2	12.0	18.4	24.6	28.9	31.3	31.7	33.5	(NA)
Single-engine:										
4-place and over	1,000	34.8	49.8	64.6	82.6	101.5	106.0	107.9	108.0	(NA)
3-place and less	1,000	33.5	31.4	44.9	54.4	59.2	62.4	60.5	59.9	(NA)
Rotorcraft ⁶	1,000	.6	1.5	2.2	4.1	5.1	5.9	4.9	7.0	(NA)
Balloons, blimps, gliders, etc.	1,000	.4	.8	1.6	2.8	4.0	4.8	5.0	5.0	(NA)
Airman certificates held	1,000	518	684	1,023	1,052	1,161	1,192	1,221	1,163	1,154
Pilot ⁷	1,000	348	480	733	728	799	815	827	764	733
Held by women	Percent	2.9	3.7	4.0	5.2	6.2	6.4	6.4	6.2	4.5
Airline transport	1,000	18	22	34	43	56	64	70	70	73
Commercial	1,000	90	117	187	189	186	182	183	169	165
Private	1,000	139	196	304	306	338	343	357	329	322
Student	1,000	99	139	196	177	205	210	200	180	156
Nonpilot ⁸	1,000	170	204	290	324	362	377	393	398	421
Ground technicians ⁹	1,000	151	175	241	271	302	307	321	336	352
General aviation: ⁵										
Hours flown ¹⁰	Million	13.1	16.7	26.0	32.0	39.4	43.3	41.0	40.7	(NA)
Fuel consumed: ¹¹										
Gasoline	Mil. gal.	(NA)	304	362	397	518	570	520	(NA)	(NA)
Jet fuel ¹²	Mil. gal.	(NA)	183	415	510	763	736	766	(NA)	(NA)
Domestic air cargo, revenue	Million	724	1,661	2,581	3,049	3,824	3,794	3,579	3,660	3,455
ton-miles flown ¹³										
Certificated route carriers:										
Scheduled service ¹⁴	Million	476	1,112	2,215	2,747	3,505	3,466	3,277	3,350	3,026
Unscheduled service ¹⁴	Million	135	330	80	39	57	88	103	110	129
Supplemental carriers ¹⁵	Million	112	220	285	263	262	240	(16)	(16)	(16)
Aircraft accidents: ¹⁷										
General aviation ⁸	Number	4,793	5,196	4,712	4,034	4,223	3,800	3,594	3,504	3,276
Fatal	Number	429	538	641	638	723	629	621	657	574
Rate per 100,000 aircraft hours flown	Rate	(NA)	(NA)	(NA)	2.24	2.07	1.62	1.65	1.79	1.59
Fatalities	Number	787	1,029	1,310	1,247	1,563	1,219	1,247	1,288	1,164
Air carrier ¹⁸	Number	90	83	55	31	21	24	15	25	16
Fatal	Number	17	9	8	2	5	4	-	4	5
Rate per 1,000,000 aircraft miles flown	Rate	(NA)	(NA)	(NA)	.001	.002	.001	-	.001	.001
Fatalities	Number	499	261	146	122	160	351	-	4	235
Commuter air carriers ¹⁹	Number	(NA)	(NA)	(NA)	48	61	52	38	33	21
Fatal	Number	(NA)	(NA)	(NA)	12	14	15	8	10	4
Rate per 1,000,000 aircraft miles flown	Rate	(NA)	(NA)	(NA)	.07	.06	.08	.04	.05	.02
Fatalities	Number	(NA)	(NA)	(NA)	28	48	66	37	36	13
Air taxis ²⁰	Number	(NA)	(NA)	(NA)	152	198	160	170	155	145
Fatal	Number	(NA)	(NA)	(NA)	24	54	30	45	39	32
Rate per 100,000 aircraft hours flown	Rate	(NA)	(NA)	(NA)	.95	1.52	.81	1.24	1.35	1.12
Fatalities	Number	(NA)	(NA)	(NA)	69	155	77	103	92	75
Hijacking incidents, worldwide	Number	-	5	83	25	31	27	40	32	32
U.S.-registered aircraft	Number	-	4	27	12	13	13	22	8	10
Successful ²¹	Number	-	1	18	4	2	6	13	2	4
Foreign-registered aircraft	Number	-	1	58	13	18	14	18	24	21
Successful ²¹	Number	-	-	37	3	8	6	9	13	12

- Represents or rounds to zero. NA Not available. ¹ Existing airports, heliports, seaplane bases, etc. recorded with FAA. Includes military airports with joint civil and military use. Includes U.S. outlying areas. Airport-type definitions: Public—publicly owned and under control of a public agency; private—owned by a private individual or corporation. May or may not be open for public use. ² Obligated Federal funds only; fiscal year data. Does not include System Planning Grants. Includes U.S. outlying areas. Prior to July 1, 1970, data are for Federal-Aid Airport Program (FAAP). 1970-1982 data are for the Airport Development Aid Program. ³ Registered aircraft that flew 1 or more hours during the year. ⁴ Includes helicopters. ⁵ See text p. 631. ⁶ Includes autogyros; excludes air carrier helicopters. ⁷ Includes all active pilots. An active pilot is one with a pilot certificate and a valid medical certificate. Also includes pilots who hold only a helicopter, glider, or lighter than air certificate, not shown separately. ⁸ Includes dispatchers, control tower operators, flight navigators and engineers, and ground technicians—mechanics, parachute riggers, and ground instructors. ⁹ No medical examinations are required; therefore, data represent all certificates on record and include retired or otherwise inactive technicians. ¹⁰ Hours flown for 1975 and 1976 are revised. In 1980, the 41.0 million flight hours comprised 13.7 hours of business and executive flying, 11.5 hours of commercial flying (including air taxi, aerial application, rental aircraft), 5.7 hours of instructional flying; 8.9 hours of personal flying, and 1.0 hours of flying for other purposes. Detail does not add to total due to independent estimating technique. ¹¹ Source: 1965-1975, U.S. Bureau of Mines; 1976-1982 FAA General Aviation Activity and Avionics Survey. ¹² Includes kerosene-type and naphtha-type jet fuels. ¹³ Total domestic, includes freight and air express; excludes mail. ¹⁴ Includes civilian and military freight and other revenue ton-miles. ¹⁵ Beginning 1980, supplementals included in unscheduled service. ¹⁶ Civil and military. ¹⁷ Data from National Transportation Safety Board. Beginning 1970, data not strictly comparable due to change of definition. ¹⁸ Beginning in 1975 includes all scheduled service of U.S. Air Carriers operating under 14 CFR 121. ¹⁹ Beginning in 1975 includes all scheduled service of U.S. Air Carriers operating under 14 CFR 135. ²⁰ Beginning in 1975, includes all unscheduled service of the U.S. Air Carriers operating under 14 CFR 135. ²¹ Hijacker controls flight and reaches destination or objective.

Source: U.S. Federal Aviation Administration, *FAA Statistical Handbook of Aviation*, annual, and unpublished data. Includes data from U.S. Civil Aeronautics Board.

NO. 1103. AIRLINE COST INDEXES: 1970 TO 1983

[Covers U.S. major and national service carriers. Major carriers have operating revenues of \$1 billion or more; nationals have operating revenues from \$75 million to \$1 billion]

ITEM	INDEX (1972=100)								PERCENT OF CASH OPERATING EXPENSES ²			
	1970	1975	1978	1979	1980	1981	1982	1983 ¹	1970	1975	1980	1983 ¹
Composite.....	87.8	141.7	183.6	211.3	261.7	295.7	304.0	307.0	100.0	100.0	100.0	100.0
Labor.....	82.9	129.4	178.8	191.7	212.0	233.4	251.6	271.3	46.3	41.2	35.6	36.9
Interest ³	106.5	117.0	143.4	143.7	162.9	182.5	181.9	179.4	4.3	2.9	3.1	4.2
Fuel.....	94.2	252.2	339.3	495.9	774.2	903.0	852.2	762.5	12.7	19.1	30.3	24.8
Passenger food.....	95.5	118.8	126.1	134.7	151.7	164.6	163.1	170.4	3.9	3.4	2.9	3.2
Advertising and promotion.....	99.1	101.3	101.3	108.3	134.6	166.0	191.2	192.5	2.6	1.8	1.6	2.2
Landing fees.....	81.7	133.9	160.2	172.9	189.4	204.9	210.1	214.6	2.2	2.4	1.7	1.7
Passenger traffic commissions.....	81.0	153.2	198.0	227.9	316.1	392.9	408.4	422.7	2.9	3.8	5.3	6.9
All other.....	91.5	125.8	150.4	183.4	178.5	195.2	206.9	214.7	25.0	25.3	19.5	20.2

¹ Apr.-June. ² Total operating expenses plus interest on long term debt, less depreciation and amortization.

³ Interest on debt.

Source: Air Transport Association of America, Washington, D.C., *Air Transport*, 1983, annual, and unpublished data.

NO. 1104. COMMUTER/REGIONAL AIRLINE OPERATIONS—SUMMARY: 1975 TO 1982

[Calendar year data. Commuter/regional airlines operate primarily aircraft of predominately 60 passengers or less and 18,000 pounds payload of cargo serving short haul and small community markets. Represents operations within all North America by U.S. regional carriers]

ITEM	Unit	1975	1976	1977	1978	1979	1980	1981	1982
Carriers.....	Number.....	235	252	242	252	258	237	277	245
Aircraft in service.....	Number.....	1,073	1,009	1,130	1,200	1,350	1,606	1,743	1,857
Communities served.....	Number.....	(NA)	(NA)	717	677	630	571	738	787
Airports served.....	Number.....	747	781	764	702	660	605	776	817
Revenue passengers enplaned.....	1,000.....	7,243	7,914	9,185	11,028	13,972	14,810	15,420	18,555
By 50 largest carriers.....	1,000.....	(NA)	6,282	7,259	8,422	11,349	12,167	13,000	16,328
Revenue passenger miles.....	Millions.....	733	834	946	1,279	1,724	1,917	2,090	2,610
Cargo pounds.....	Millions.....	129	152	196	299	346	472	566	626

NA Not available.

Source: Regional Airline Association, Washington, D.C., *Annual Report*.

NO. 1105. CHARTER PASSENGERS, BY FLAG OF AIR CARRIER AND BY AREA OF TRAVEL: 1970 TO 1982

[In thousands. Covers charter flights to, from, or within the U.S. 1970-1975 estimates derived by multiplying available seats by passenger load factors; thereafter, based on actual passengers]

ITEM	1970	1974	1975	1976	1977	1978	1979	1980 ¹	1981 ¹	1982 ¹
Total passengers.....	3,862	6,236	5,745	7,390	9,038	8,309	6,500	3,329	3,344	3,814
U.S.:										
Route carriers ²	1,355	3,040	2,835	4,109	4,597	3,871	2,854	794	726	959
Charter (supplemental) carriers ³	1,647	2,129	1,470	1,631	2,229	2,405	1,843	790	846	817
Foreign:										
Route carriers ²	390	476	589	721	845	1,023	803	777	824	1,077
Charter (supplemental) carriers ³	470	591	851	929	1,367	1,010	1,000	968	949	962
Domestic travelers.....	1,397	2,348	1,969	2,859	3,524	3,102	2,159	109	71	112
International travelers ⁴.....	2,465	3,888	3,776	4,531	5,514	5,207	4,341	3,220	3,273	3,702
Transatlantic.....	1,816	2,366	2,321	2,716	3,539	2,821	1,908	1,144	939	975
Latin America ⁵	444	806	684	1,001	1,130	1,416	1,287	688	794	883

¹ The compilation of domestic, and consequently total passengers, no longer includes charter passengers within the contiguous 48 States. In 1979, such passengers were 2,049,000 of the domestic total of 2,159,000. Beginning 1980, domestic travelers represent mainland to Hawaii and Alaska passengers only.

² Covers charter service of scheduled airlines. See text, p. 631 for definition. ³ Covers charter service of charter airlines. Previously known as the U.S. Supplemental Airlines, with certificated charter authority from the Civil Aeronautics Board, charter airlines, as a result of the 1978 Deregulation Act, have authority to engage in both charter and scheduled services. ⁴ Includes other, not shown separately. ⁵ Includes Caribbean.

Source: National Air Carrier Association, Washington, D.C., *Annual Report*.

NO. 1106. AEROSPACE—SALES, NEW ORDERS, AND BACKLOG: 1970 TO 1982

[Reported by establishments in which the principal business is the development and/or production of aerospace products]

ITEM	TOTAL (bil. dol.)						PERCENT U.S. GOVERNMENT					
	1970	1975	1979	1980	1981	1982, prel.	1970	1975	1979	1980	1981	1982, prel.
Net sales.....	24.8	29.5	46.2	58.4	69.9	74.0	66.3	59.6	50.3	45.7	47.2	56.0
Complete aircraft and parts ¹	10.4	11.3	19.1	22.6	25.1	24.3	54.8	46.9	33.4	29.6	32.7	46.5
Aircraft engines and parts.....	3.1	3.4	5.6	6.9	8.5	8.4	61.5	47.0	40.6	(NA)	(NA)	(NA)
Missiles and parts.....	5.4	6.3	7.2	8.4	9.7	11.8	96.9	93.7	47.0	(NA)	(NA)	(NA)
Other products, services.....	5.9	8.5	14.3	20.5	26.6	29.5	(X)	(X)	(X)	(X)	(X)	(X)
Net, new orders.....	21.2	29.0	65.2	70.4	72.9	80.4	71.4	64.1	43.1	47.6	53.7	60.4
Backlog, Dec. 31.....	24.7	35.0	78.3	90.5	92.6	99.1	52.1	63.2	46.2	41.1	46.7	50.9

NA Not available. X Not applicable. ¹ Except engines sold separately.Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MQ-37D.

NO. 1107. CIVIL AIRCRAFT SHIPMENTS: 1960 TO 1981

[Represents manufacturers' shipments of non-military complete aircraft. Includes both domestic and export output]

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981
Total.....	8,181	12,646	8,190	15,117	15,196	16,446	18,159	18,882	17,924	13,130	11,087
Transports.....	238	221	311	263	314	238	(NA)	(NA)	(NA)	(NA)	(NA)
General aviation.....	7,726	12,053	7,384	14,026	14,043	15,648	17,175	18,049	16,883	11,777	10,114
Single-engine: 1- to 3-place.....	1,366	3,545	1,981	3,346	3,047	3,175	3,986	4,881	3,293		
4-place and over.....	5,072	6,478	4,048	8,124	8,460	9,854	10,372	9,501	9,751	8,175	6,825
Multi-engine.....	1,286	2,030	1,352	2,556	2,536	2,619	2,817	3,657	3,539	3,602	3,289
Rotorcraft.....	217	372	496	628	639	560	984	933	1,041	1,353	953

NA Not available.

Source: Through 1977, U.S. Federal Aviation Administration, *FAA Statistical Handbook of Aviation*, annual. Beginning 1978, U.S. Bureau of the Census, *Current Industrial Reports*, series M-37G.

NO. 1108. EMPLOYMENT AND EARNINGS IN AIRCRAFT INDUSTRIES: 1960 TO 1982

[Annual averages of monthly figures. Covers industries as defined by the 1972 Standard Industrial Classification Manual]

ITEM	Unit	1960	1965	1970	1975	1978	1979	1980	1981	1982
Employment, total.....		1,000	624	620	664	607	621	713	763	733
Aircraft.....		1,000	337	333	371	293	288	333	349	320
Aircraft engines and engine parts.....		1,000	(NA)	(NA)	(NA)	126	134	152	163	149
Guided missiles, space vehicles, and parts.....		1,000	(NA)	(NA)	(NA)	93	93	102	111	132
Aircraft equipment, n.e.c. ¹		1,000	(NA)	(NA)	(NA)	95	106	126	140	139
Average weekly earnings: Aircraft.....	Dollars.....	110	131	169	256	324	360	404	444	485
Aircraft engines and parts.....	Dollars.....	(NA)	(NA)	(NA)	247	325	361	394	422	454
Guided missiles, space vehicles, and parts.....	Dollars.....	(NA)	(NA)	(NA)	245	317	347	378	410	448
Average hourly earnings: Aircraft.....	Dollars.....	2.71	3.15	4.17	6.21	7.70	8.60	9.66	10.74	11.85
Aircraft engines and parts.....	Dollars.....	(NA)	(NA)	(NA)	6.04	7.80	8.53	9.42	10.41	11.16
Guided missiles, space vehicles, and parts.....	Dollars.....	(NA)	(NA)	(NA)	6.02	7.56	8.25	9.22	10.06	10.96

NA Not available. ¹ N.e.c.=Not elsewhere classified.Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

NO. 1109. AIRBORNE IMPORTS AND EXPORTS—SHIPPING WEIGHT AND VALUE: 1975 TO 1982

[Weight in millions of pounds, value in millions of dollars. Exports are f.a.s. (free alongside ship) value all years; imports are f.a.s. value for 1975 and 1980 and customs value for 1982; see text, p. 816. Includes trade of Puerto Rico; beginning 1982, includes the U.S. Virgin Islands trade with foreign countries]

CONTINENT	IMPORTS						EXPORTS					
	Weight			Value			Weight			Value		
	1975	1980	1982	1975	1980	1982	1975	1980	1982	1975	1980	1982
All carriers ¹	1,063	1,344	1,688	8,917	28,044	30,933	1,420	2,269	2,055	14,554	46,093	45,304
North America.....	141	171	175	775	3,546	3,225	293	400	347	1,552	5,380	4,723
South America.....	118	140	215	412	1,168	1,301	196	362	359	1,225	3,284	3,369
Europe.....	413	526	687	4,266	11,459	12,981	592	983	760	7,432	24,194	20,599
Asia.....	377	483	577	3,026	9,682	12,169	246	416	458	3,445	10,419	13,174
U.S. carriers ¹	456	516	598	3,860	8,988	9,854	480	743	609	5,481	15,013	13,186
North America.....	51	55	65	329	1,002	1,277	110	157	149	711	3,239	2,289
South America.....	46	28	24	152	294	229	61	71	122	346	1,028	792
Europe.....	169	210	244	1,941	3,978	4,181	195	290	218	2,377	6,779	5,523
Asia.....	187	214	250	1,352	3,577	4,012	87	144	139	1,291	3,117	3,701

¹ Includes shipments of special category and shipments to other continents, not shown separately.Source: U.S. Bureau of the Census, *United States Airborne Exports and General Imports*, FT 986, annual.

No. 1110. EXPORTS OF U.S. AEROSPACE PRODUCTS: 1970 TO 1982

PRODUCT	NUMBER OF UNITS					VALUE (mil. dol.)				
	1970	1975	1980	1981	1982	1970	1975	1980	1981	1982
Total	(X)	(X)	(X)	(X)	(X)	3,191	7,456	15,397	13,202	10,876
Civilian:										
Complete aircraft.....	2,902	4,371	4,434	3,626	1,557	1,527	3,169	8,257	8,612	4,849
Transports.....	180	188	237	255	121	1,272	2,368	6,727	7,180	3,834
General aviation ¹	2,029	3,289	3,178	2,617	940	111	307	740	789	517
Helicopters.....	332	338	525	453	259	27	105	299	346	206
Other, incl. used.....	361	581	494	501	237	117	389	491	297	292
Engines.....	3,811	4,678	4,606	4,510	4,268	118	232	556	784	763
Turbines.....	649	876	1,393	1,749	1,743	99	187	514	739	721
Military:										
Complete aircraft.....	634	942	462	508	637	467	1,303	949	1,712	2,387
Transports.....	81	51	23	22	32	82	235	232	158	340
Helicopters.....	67	116	89	68	55	23	123	88	177	156
Fighters, bombers.....	217	469	90	113	154	331	902	449	1,006	1,473
Other ²	269	306	280	305	396	31	43	180	371	418
Engines.....	611	873	364	504	645	33	92	63	83	140
Civilian and military:										
Parts ³	(X)	(X)	(X)	(X)	(X)	1,027	2,610	5,232	1,477	1,635
Rockets, guided missiles.....	65,001	112,908	127,685	47,444	19,205	8	47	327	530	1,084
Missiles and rocket engines.....	39,615	7,400	7,042	6,147	22,482	11	3	13	4	8

X Not applicable. ¹ Includes transports under 33,000 pounds.² Includes trainers, general aviation, and used aircraft.³ Parts of engines, turbines, airframes, rockets, and missiles.Source: U.S. Bureau of the Census, *United States Exports—Commodity by Country*, FT 446, annual.

No. 1111. U.S. RECEIPTS AND PAYMENTS FOR INTERNATIONAL TRANSPORTATION: 1960 TO 1982

(In millions of dollars. Data are international transportation transactions recorded for balance of payment purposes (see table 1451). Receipts include freight on exports carried by U.S.-operated carriers and foreign carrier expenditures in U.S. ports. Payments include freight on imports carried by foreign carriers and U.S. carrier port expenditures abroad. Freight on exports carried by foreign carriers is excluded since such payments are directly or indirectly for foreign account. Similarly, freight on U.S. imports carried by U.S. carriers is a domestic rather than an international transaction. Minus sign (—) indicates excess of payments over receipts. See *Historical Statistics, Colonial Times to 1970*, series U 3 and U 10, for totals.)

ITEM	1960	1965	1970	1975	1977	1978	1979	1980	1981	1982
Total receipts	1,782	2,446	3,669	6,879	8,456	9,739	12,127	14,229	15,583	15,416
Ocean transportation ¹	1,337	1,731	2,256	4,065	4,906	5,587	6,868	7,757	8,027	7,686
Export freight earnings.....	426	519	604	1,183	1,339	1,621	2,091	2,641	2,803	2,549
Freight earnings on shipments between foreign countries.....	136	153	209	328	395	412	480	588	561	555
Port expenditures.....	746	1,041	1,406	2,481	3,137	3,511	4,235	4,435	4,552	4,468
Charter hire.....	8	9	37	73	35	43	62	93	111	114
Air transportation.....	358	591	1,240	2,515	3,190	3,772	4,811	5,967	7,073	7,256
Export freight earnings.....	55	91	187	390	426	507	577	742	752	762
Passenger fares.....	156	262	541	1,039	1,366	1,603	2,156	2,582	2,991	2,979
Port expenditures.....	147	238	512	1,066	1,398	1,662	2,078	2,643	3,330	3,515
Other transportation.....	87	124	173	299	360	380	448	505	483	474
Total payments	1,915	2,668	4,058	7,971	10,720	12,019	14,090	15,397	16,866	16,410
Ocean transportation.....	1,333	1,803	2,380	4,465	6,275	7,175	8,379	8,447	8,805	8,195
Import freight payments.....	780	1,083	1,444	3,047	4,611	5,295	6,084	5,809	5,976	5,450
Passenger fares.....	212	207	245	278	261	252	256	268	287	290
Port expenditures.....	167	261	316	755	1,051	1,255	1,607	1,905	2,054	1,957
Charter hire.....	174	232	375	385	352	373	430	465	486	486
Air transportation.....	504	775	1,561	3,346	4,206	4,600	5,448	6,705	7,785	7,938
Import freight payments.....	22	40	115	246	362	448	506	562	671	725
Passenger fares.....	301	510	970	1,985	2,487	2,644	2,926	3,339	4,200	4,482
Port expenditures.....	181	225	496	1,115	1,357	1,508	2,016	2,804	2,914	2,731
Other transportation.....	78	90	97	160	239	244	263	245	276	277
Receipts balance	-133	-222	-389	-1,092	-2,264	-2,280	-1,963	-1,168	-1,283	-994

¹ Through 1965, includes small amount for passenger fares, not shown separately.Source: U.S. Bureau of Economic Analysis, quarterly in *Survey of Current Business*.

NO. 1112. EXPORTS AND IMPORTS, BY METHOD OF TRANSPORT: 1960 TO 1982

[Exports are free alongside ship (f.a.s.) value (see text p. 816) for all years; imports are f.a.s. value for 1975 and 1980 and customs value for 1960-1970, and 1982. Export data include both domestic and foreign; import data for general imports only. For details, see source]

ITEM	Unit	EXPORTS						IMPORTS					
		1960	1965	1970	1975	1980	1982	1960	1965	1970	1975	1980	1982
All methods ¹	Bil. dol.....	20.6	27.5	43.2	107.6	220.7	212.3	14.7	21.4	40.0	96.9	240.8	244.0
Vessel.....	Bil. dol.....	13.1	16.9	24.6	63.4	120.9	119.5	11.1	14.9	24.8	63.5	165.1	155.9
Air.....	Bil. dol.....	(NA)	2.3	6.1	15.2	46.1	45.3	(NA)	1.3	3.4	8.9	28.0	30.9
Shipping weight: Vessel.....	Bil. lb.....	248.5	343.5	480.5	538.5	801.8	801.1	398.1	511.5	598.4	855.3	976.8	753.7
Air.....	Bil. lb.....	(NA)	.5	.9	1.4	2.3	2.1	(NA)	.2	.6	1.1	1.3	1.7

NA Not available. ¹ Includes types other than vessel and air.

Source: U.S. Bureau of the Census, *Highlights of U.S. Export and Import Trade*, FT 990, monthly.

NO. 1113. WATERBORNE COMMERCE—CARGO TONNAGE: 1960 TO 1981

[In millions of short tons. Includes Puerto Rico and outlying areas. Import and export figures differ slightly from those shown in tables 1119 and 1120 due to minor differences in basic concepts. See source for details. See also *Historical Statistics, Colonial Times to 1970*, series Q 530-541]

CLASS	1960	1965	1970	1974	1975	1977	1978	1979	1980	1981
Net total.....	1,100	1,273	1,532	1,747	1,695	1,908	2,021	2,074	1,999	1,941
Domestic commerce ¹.....	761	829	951	983	946	973	1,075	1,080	1,077	1,054
Coastwise, between ports.....	209	202	238	233	232	248	305	305	330	322
Great Lakes, between ports.....	155	154	157	146	129	109	143	144	115	115
Intra: Seaports, Great Lakes ports, and inland waterways ports.....	104	103	81	88	78	83	90	93	94	93
Ports and river ports ²	292	371	474	515	507	532	538	539	539	524
Foreign commerce.....	339	444	581	764	749	935	946	993	922	887
Imports, through seaports.....	198	245	313	474	455	625	616	608	502	457
Imports, Great Lakes ports.....	13	25	26	23	21	33	27	25	16	20
Exports, through seaports.....	105	142	206	239	237	241	259	312	359	366
Exports, Great Lakes ports.....	23	32	36	28	35	36	44	49	45	43

¹ Includes traffic among ports of outlying areas.

² Represents traffic mainly utilizing inland waterways.

NO. 1114. FREIGHT CARRIED ON INLAND WATERWAYS, BY SYSTEM: 1960 TO 1981

[In billions of ton-miles. Excludes Alaska and Hawaii, except as noted. Includes waterways, canals, and connecting channels]

SYSTEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total.....	220.3	262.4	318.6	358.2	354.9	342.2	372.9	368.3	409.3	424.6	406.9	410.2
Atlantic coast waterways.....	28.6	27.8	28.6	34.2	35.4	31.8	32.1	30.4	30.5	31.9	30.4	28.3
Gulf coast waterways.....	16.9	21.8	28.6	32.3	33.3	30.8	34.3	37.6	37.1	38.1	36.6	35.1
Pacific coast waterways ¹	6.0	6.6	8.4	10.5	10.3	9.7	11.3	12.8	13.6	14.1	14.9	14.4
Mississippi River system ²	69.3	96.6	138.5	155.3	158.3	170.7	189.5	196.9	209.3	218.8	228.9	234.4
Great Lakes System ³	99.5	109.6	114.5	125.9	107.5	99.2	105.6	90.7	118.9	121.7	96.0	98.0

¹ Beginning 1960, includes Alaskan waterways. ² Comprises main channels and all tributaries of the Mississippi, Illinois, Missouri, and Ohio Rivers. ³ Does not include traffic between foreign ports.

Source of tables 1113 and 1114: U.S. Corps of Engineers, *Waterborne Commerce of the United States*, annual.

NO. 1115. FEDERAL EXPENDITURES FOR CIVIL FUNCTIONS OF THE CORPS OF ENGINEERS, UNITED STATES ARMY: 1960 TO 1982

[In millions of dollars. 1960-1975, for fiscal years ending June 30; beginning 1977, for fiscal years ending Sept. 30. These expenditures represent the work of the Corps of Engineers to plan, design, construct, operate, and maintain civil works projects and activities, particularly in the management and improvement of rivers, harbors, and waterways for navigation, flood control, and multiple purposes. The amounts listed below do not include the expenditure of funds contributed, advanced, or reimbursed by other government agencies or local interests. Includes Puerto Rico and outlying areas]

FISCAL YEAR	Total program ¹	Navi-gation	Flood control	Multi-ple purpose	FISCAL YEAR	Total program ¹	Navi-gation	Flood control	Multi-ple purpose
1960.....	873	310	293	270	1977.....	2,340	792	918	594
1965.....	1,169	426	447	283	1978.....	2,645	951	1,069	583
1970.....	1,128	498	379	331	1979.....	2,934	1,083	1,218	577
1975.....	2,070	694	904	439	1980.....	3,061	1,225	1,228	551
1976 ²	2,787	898	1,228	617	1981.....	3,198	1,339	1,273	527
					1982.....	2,940	1,331	1,083	453

¹ Includes expenditures which are not associated with a specific purpose (e.g., headquarters staff supervision, management, and administration activities, and some research and development activities). ² Includes the transition quarter (July-September 1976).

Source: U.S. Corps of Engineers, *Report of Civil Works Expenditures by State and Fiscal Year*, annual.

NO. 1116. FREIGHT CARRIED ON MISSISSIPPI RIVER SYSTEM: 1950 TO 1981

[Net traffic. Comprises main channels and all tributaries of the Mississippi, Illinois, Missouri, and Ohio Rivers]

ITEM	Unit	1950	1955	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981
Total	Mill. sh. tons	138	194	234	302	391	453	498	537	553	582	584	589
Inland.....	Mill. sh. tons.....	115	164	188	236	297	330	346	352	355	371	366	368
Coastwise.....	Mill. sh. tons.....	14	16	22	28	44	30	26	30	32	33	42	45
Foreign:													
Imports.....	Mill. sh. tons.....	4	6	11	13	17	46	67	96	99	106	91	80
Exports.....	Mill. sh. tons.....	5	8	13	23	34	48	60	60	67	73	86	98
Total	Bil. ton-miles	33.6	52.0	69.3	96.6	138.5	170.7	189.5	196.8	209.3	218.8	228.9	234.4
Inland.....	Bil. ton-miles.....	30.3	47.4	62.4	87.4	125.9	151.3	164.8	166.9	176.5	184.4	193.5	199.0
Coastwise.....	Bil. ton-miles.....	2.1	2.5	3.2	3.6	4.9	4.5	4.1	4.8	5.4	5.7	7.4	7.7
Foreign:													
Imports.....	Bil. ton-miles.....	.6	1.0	1.8	2.3	2.8	8.0	11.7	16.2	16.8	17.6	15.1	13.3
Exports.....	Bil. ton-miles.....	.6	1.1	1.9	3.3	4.9	6.9	8.8	8.8	10.1	11.1	13.0	14.4

¹ Total reflects adjustment not available by type of traffic.Source: U.S. Corps of Engineers, *Waterborne Commerce of the United States*, annual.

NO. 1117. U.S. FREIGHT CARRIED ON GREAT LAKES SYSTEM: 1950 TO 1981

[In billions of ton-miles]

ITEM	1950	1955	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981
Total	111.7	118.8	99.5	109.6	114.5	107.5	99.2	105.6	90.7	118.9	121.7	98.0	98.0
Domestic.....	100.1	104.9	80.6	76.7	80.1	79.7	69.2	71.3	53.0	76.8	78.5	62.3	62.7
Lakeswise.....	99.6	104.1	79.7	75.9	79.4	78.9	68.5	70.7	52.4	76.3	78.0	61.7	62.1
Internal.....	.3	.6	.7	.7	.6	.6	.8	.5	.4	.4	.4	.5	.5
Local ¹.....	.2	.2	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
Foreign.....	11.6	13.9	18.9	32.9	34.3	27.8	29.9	34.3	37.7	42.1	43.1	33.7	35.3
Canadian.....	11.4	13.4	13.8	23.5	23.8	19.4	20.7	23.7	23.1	23.1	26.9	23.6	25.8
Overseas.....	.2	.5	5.1	9.4	10.5	8.4	9.3	10.7	14.7	19.0	16.2	10.1	9.5

¹ Includes coastwise traffic.Source: U.S. Corps of Engineers, *Waterborne Commerce of the United States*, annual.

NO. 1118. DOMESTIC AND FOREIGN WATERBORNE COMMERCE, BY TYPE OF COMMODITY: 1970 TO 1981

[In millions of short tons. Domestic trade includes all commercial movements between U.S. ports and on inland rivers, Great Lakes, canals, and connecting channels of U.S., Puerto Rico, and Virgin Islands. See also headnote, table 1113]

COMMODITY	1970		1975		1980		1981			
	Total	Do- mestic	Total	Do- mestic	Total	Do- mestic	Total	Do- mestic	Foreign	
									Imports	Exports
Net total	1,531.7	950.7	1,695.0	946.3	1,998.9	1,077.5	1,941.5	1,054.4	477.2	409.9
Petroleum products ¹	394.7	287.3	407.6	328.5	423.2	339.2	410.3	324.3	65.3	20.7
Gasoline.....	89.3	88.7	95.7	92.2	87.3	81.0	83.0	76.3	6.5	.3
Distillate fuel oil.....	78.8	76.9	93.4	87.0	74.6	72.1	71.2	64.8	6.1	.3
Residual fuel oil.....	170.5	78.8	172.1	111.5	188.0	141.3	187.8	141.3	40.8	5.7
Crude petroleum.....	210.5	116.3	333.8	77.9	480.2	174.2	432.2	170.9	261.2	-
Coal and lignite.....	225.4	154.1	219.0	152.8	256.4	164.1	284.6	171.5	.9	112.2
Nonmetallic minerals ^{1,2}	166.6	132.6	159.2	123.3	157.1	111.6	136.0	94.9	21.1	20.0
Sand and gravel ³	78.4	73.9	72.4	67.9	65.1	60.8	53.6	49.4	3.0	1.2
Limestone.....	42.0	34.1	37.8	29.1	34.2	23.9	32.7	21.7	8.0	3.0
Phosphate rock.....	16.6	5.8	20.1	9.4	23.7	9.5	18.5	8.4	.2	9.9
Iron and concentrates.....	129.3	75.2	121.4	69.3	98.4	64.9	106.0	68.7	31.1	6.2
Farm products ¹	90.4	28.5	144.3	43.1	216.8	63.4	224.0	68.7	5.5	149.8
Corn.....	27.2	11.7	56.8	20.8	98.6	30.6	90.7	31.7	-	59.0
Wheat.....	25.0	5.8	44.4	10.4	53.4	14.3	68.2	18.2	-	48.0
Soybeans.....	21.2	8.3	23.2	9.4	39.6	16.1	39.2	15.4	-	23.8
Chemicals and allied products.....	62.0	39.7	66.5	40.0	91.9	49.4	86.9	47.5	10.5	28.8
Food and kindred products.....	35.0	11.0	35.5	13.3	54.8	20.4	54.4	18.6	12.3	23.5
Lumber and wood products ⁴	48.9	27.3	48.2	24.7	52.0	22.7	42.5	18.7	3.9	19.9
Primary metal products.....	42.4	10.8	38.1	9.3	28.9	9.0	32.7	9.6	20.5	2.6
Waste and scrap.....	25.9	16.0	28.0	18.8	31.1	18.8	29.2	21.6	.5	7.1
Other.....	99.7	51.9	93.5	45.5	108.1	39.8	102.7	39.4	44.3	19.0

- Represents zero.

¹ Includes categories not shown separately.² Excludes fuels.³ Includes crushed rock.⁴ Excludes furniture.Source: U.S. Corps of Engineers, *Waterborne Commerce of the United States*, annual.

NO. 1119. WATERBORNE IMPORTS AND EXPORTS—CARGO TONNAGE, BY FLAG OF CARRIER VESSEL: 1960 TO 1982

[In millions of short tons, except percent. Excludes commodities classified for security reasons as "Special Category" (exports only) and exports by Dept. of Defense (grant-aid shipments), and merchandise shipped in transit through the U.S. See Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series Q 524-529]

ITEM	DRY CARGO								TANKER CARGO							
	1960	1965	1970	1975	1980	1981	1982	1960	1965	1970	1975	1980	1981	1982		
Total trade.....	202	274	358	387	497	485	443	120	153	181	311	392	385	334		
Percent by U.S. flag.....	15.2	9.3	6.4	5.5	4.8	5.2	4.7	7.5	5.9	4.2	5.2	2.6	4.2	4.8		
Imports, total.....	95	123	138	137	134	137	112	104	132	161	291	354	326	284		
U.S. flag.....	14	10	10	10	10	11	9	6	5	6	13	9	14	14		
Foreign flag.....	81	113	128	127	124	126	103	98	127	156	278	345	312	250		
Exports, total.....	108	151	220	250	362	347	331	16	21	20	21	39	60	70		
U.S. flag.....	17	15	13	11	14	14	12	3	4	2	3	1	2	2		
Foreign flag.....	91	135	207	238	348	333	319	13	17	18	16	38	58	68		

Source: U.S. Bureau of the Census, through 1965, *Foreign Commerce and Navigation of the United States*; thereafter, *U.S. Waterborne Exports and General Imports*, FT 985, annual; and unpublished data.

NO. 1120. WATERBORNE IMPORTS AND EXPORTS—CARGO TONNAGE AND VALUE, BY COASTAL DISTRICT: 1960 TO 1982

[Exports are free alongside ship (f.a.s.) value for all years; imports are f.a.s. value for 1975-1981 and customs value for 1960-1970, and 1982, see text, p. 816. Includes commodities classified for security reasons as "Special Category" (exports only) and exports by Dept. of Defense (grant-aid shipments), and merchandise shipped in transit through the U.S. See Appendix III]

DISTRICT	CARGO TONNAGE (mil. sh. tons)								VALUE (bil. dol.)							
	1960	1965	1970	1975	1980	1981	1982	1960	1965	1970	1975	1980	1981	1982		
Imports:																
Atlantic.....	135	164	219	232	183	195	172	7.8	9.7	15.0	34.7	71.5	78.7	70.9		
Gulf.....	27	37	47	134	243	214	160	1.3	1.8	2.9	14.3	56.4	56.9	40.8		
Pacific.....	23	27	31	64	56	48	38	1.6	2.4	5.5	15.2	45.0	51.3	48.2		
Great Lakes.....	13	25	26	22	16	20	14	.5	1.0	1.3	1.7	1.9	2.5	2.0		
Exports:																
Atlantic.....	45	55	79	80	117	116	119	7.0	8.4	11.9	28.7	51.0	53.4	50.2		
Gulf.....	37	59	78	106	163	171	172	3.7	5.0	6.9	21.4	41.5	43.9	41.0		
Pacific.....	19	26	48	49	78	78	74	1.8	2.4	4.1	10.0	25.2	27.1	25.5		
Great Lakes.....	23	32	36	35	45	43	36	.7	1.2	1.4	2.8	4.6	4.1	3.2		

Source: U.S. Bureau of the Census, through 1965, *Foreign Commerce and Navigation of the United States*; thereafter, *U.S. Waterborne Exports and General Imports*, FT 985, annual.

NO. 1121. CONTAINERIZED CARGO—TONNAGE AND TWENTY-FOOT EQUIVALENT UNITS (TEU'S), BY SELECTED U.S. PORTS: 1980 AND 1981

[Based on reports filed for any vessel of 1,000 or more gross registered tonnage carrying 25 or more 8x20 foot TEU cargo container/trailer units]

PORT	LONG TONS (1,000)						TEU'S (1,000)					
	Total		Import		Export		Total		Import		Export	
	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981
Total ¹	34,492	37,335	12,862	16,726	21,630	20,609	3,686	3,884	1,505	1,834	2,181	2,050
New York.....	7,021	7,737	3,434	4,583	3,587	3,174	750	805	381	480	369	325
Los Angeles.....	4,053	4,068	1,484	1,711	2,569	2,357	445	446	189	206	256	240
Long Beach.....	2,416	2,986	1,142	1,733	1,274	1,253	295	361	171	241	124	120
Oakland.....	3,084	3,226	638	964	2,446	2,262	342	353	83	119	259	234
Seattle.....	2,873	2,925	974	1,153	1,899	1,772	329	333	153	166	176	167
Baltimore.....	2,629	2,584	813	1,008	1,816	1,576	262	258	81	99	181	159
Norfolk.....	1,824	1,848	428	461	1,396	1,381	201	189	51	48	150	140
Houston.....	1,455	2,010	606	1,026	849	984	136	154	60	73	76	81
Charleston.....	1,205	1,303	309	426	896	877	118	134	29	44	89	90
Miami.....	1,289	1,228	398	339	891	889	132	126	38	35	84	91
San Francisco.....	906	1,017	226	249	680	768	90	103	24	27	66	76
Savannah.....	826	871	274	408	552	483	92	102	34	51	58	51
New Orleans.....	1,001	1,066	396	488	605	578	93	83	35	32	58	51
Philadelphia.....	760	783	444	510	316	253	69	72	36	44	33	28
San Juan.....	345	428	141	188	204	240	46	56	19	24	27	32
Portland.....	480	521	96	103	384	418	38	44	11	12	27	32

¹ Includes other ports, not shown separately.

Source: U.S. Maritime Administration, *Containerized Cargo Statistics*, annual.

**NO. 1122. VESSELS ENTERED AND CLEARED IN FOREIGN TRADE—NET REGISTERED TONNAGE, BY
FLAG OF CARRIER VESSEL: 1961 TO 1982**

(In millions of net tons, except as indicated. Includes Puerto Rico and Virgin Islands. Seaports comprise all ports except Great Lakes ports. See also *Historical Statistics, Colonial Times to 1970*, series Q 507-517)

YEARLY AVERAGE OR YEAR	ALL PORTS					SEAPORTS					
	Number of vessels	Tonnage, all vessels				Tonnage, all vessels			Tonnage, with cargo		
		Total	U.S.	Per- cent U.S.	Foreign	Total	U.S.	Foreign	Total	U.S.	Foreign
Entered:											
1961-1965	49,670	189	33	17.9	155	166	30	136	128	19	109
1966-1970	53,459	232	29	12.5	203	206	27	180	157	18	139
1971-1975	53,760	319	30	9.5	290	292	28	264	220	24	196
1976-1980	53,700	458	40	8.7	418	425	38	387	316	30	286
1970	53,293	254	26	10.3	228	227	24	202	171	19	152
1975	51,443	355	32	9.9	323	326	30	297	240	26	215
1979	53,288	499	45	9.0	454	462	42	420	343	33	310
1980	53,645	492	52	10.6	440	460	50	410	310	34	276
1981	52,768	470	56	11.9	414	439	54	385	294	39	255
1982	47,940	438	59	13.5	379	412	57	355	255	36	219
Cleared:											
1961-1965	48,098	189	34	17.9	155	168	30	137	96	20	76
1966-1970	52,415	232	30	12.8	202	206	27	179	122	23	99
1971-1975	53,039	324	31	9.9	293	296	29	267	149	21	127
1976-1980	52,931	453	41	9.1	412	420	38	382	303	26	177
1970	52,195	253	27	10.6	226	226	25	201	132	20	112
1975	51,017	363	34	10.3	329	334	31	303	168	23	144
1979	52,642	487	46	9.7	449	458	44	415	223	26	195
1980	52,928	487	54	11.1	433	456	51	405	246	33	213
1981	52,637	477	56	11.7	420	446	54	392	251	33	218
1982	48,409	448	60	13.4	388	421	58	363	257	35	222

Source: U.S. Bureau of the Census, through 1965, *Foreign Commerce and Navigation of the United States*; thereafter, *Vessel Entrances and Clearances*, FT 975, annual.

**NO. 1123. VESSELS ENTERED AND CLEARED IN FOREIGN TRADE—NET REGISTERED TONNAGE, BY
CUSTOMS DISTRICTS: 1970 TO 1982**

(In millions of net tons. Excludes domestic trade. Virgin Islands and Puerto Rico included in South Atlantic Coast, Hawaii in South Pacific Coast, Alaska in North Pacific Coast)

CUSTOMS DISTRICT	VESSELS ENTERED						VESSELS CLEARED					
	1970	1975	1979	1980	1981	1982	1970	1975	1979	1980	1981	1982
North Atlantic Coast	102.1	114.2	118.2	118.6	113.4	109.9	99.9	116.6	119.9	115.2	111.4	104.5
With cargo	85.4	92.3	95.2	82.1	83.0	75.5	43.7	50.6	50.7	57.8	54.5	54.5
South Atlantic Coast	36.1	48.0	66.6	65.3	65.0	59.9	31.3	46.0	62.2	60.1	61.4	57.0
With cargo	27.1	33.8	45.6	41.9	40.1	37.3	11.9	14.3	21.5	22.4	24.8	24.6
Gulf Coast	36.1	89.1	182.1	172.7	162.3	145.2	42.6	96.1	179.0	175.0	169.2	148.6
With cargo	23.0	60.8	141.7	122.8	113.9	89.9	36.8	54.2	78.3	85.0	88.9	63.9
South Pacific Coast	27.5	38.4	47.8	53.3	53.4	55.5	27.7	41.2	44.7	45.1	48.9	55.5
With cargo	21.8	32.4	36.5	36.0	34.2	33.6	20.9	24.0	30.2	31.7	38.7	47.1
North Pacific Coast	24.9	36.8	47.8	50.6	44.8	41.5	24.3	33.8	53.6	60.3	54.4	55.9
With cargo	13.6	21.1	24.4	26.6	23.4	18.9	19.0	24.5	42.1	49.0	44.3	47.5
Great Lakes	27.5	28.8	36.3	31.1	31.0	26.0	27.2	29.4	36.9	31.5	31.4	26.2
With cargo	15.2	14.0	17.1	11.3	13.5	9.6	20.2	21.2	26.8	23.7	23.4	20.7

Source: U.S. Bureau of the Census, 1965, *Foreign Commerce and Navigation of the United States*; thereafter, *Vessel Entrances and Clearances*, FT 975, annual.

NO. 1124. DOMESTIC MERCHANT VESSELS COMPLETED BY U.S. SHIPYARDS: 1960 TO 1982

(Vessels of 1,000 gross tons and over. See also *Historical Statistics, Colonial Times to 1970*, series Q 438-448)

ITEM	Unit	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981	1982
Merchant vessels	Number	26	13	13	15	16	17	14	15	10	12	11
Gross tons	1,000	410	173	342	452	615	884	912	1,149	375	275	337
Cargo	Number	15	11	6	8	4	2	2	4	6	2	6
Gross tons	1,000	134	121	120	65	57	25	27	53	105	53	221
Deadweight tons	1,000	163	154	134	71	76	37	30	47	114	73	219
Tankers	Number	11	2	7	12	12	15	12	11	4	10	5
Gross tons	1,000	276	52	222	387	558	859	885	1,096	270	222	116
Deadweight tons	1,000	456	92	427	742	1,176	1,585	1,392	1,901	354	358	226

Source: 1960, American Bureau of Shipping, New York, N.Y., annually in *The Bulletin*; thereafter, U.S. Maritime Administration, *New Ship Construction*, annual.

NO. 1125. UNITED STATES FLAG MERCHANT VESSELS, STEAM AND MOTOR: 1970 TO 1982

[Deadweight tonnage in thousands. As of June 30 except, beginning 1979, as of Sept. 30. Covers oceangoing vessels of 1,000 gross tons and over engaged in foreign and domestic trade, and inactive vessels. Excludes special types such as tugs, barges, cable ships, fishing trawlers, and vessels employed on Great Lakes. See also *Historical Statistics, Colonial Times to 1970*, series Q 487-502]

ITEM	CARGO ¹						TANKER					
	1970	1975	1979	1980	1981	1982	1970	1975	1979	1980	1981	1982
Number of vessels	1,479	612	566	553	550	524	301	279	305	310	313	304
Active:												
Foreign trade	354	228	204	195	184	171	32	39	72	32	32	26
Domestic trade ²	70	49	40	46	40	42	175	156	168	211	195	182
Coastwise	10	17	8	12	11	7	132	136	114	103	87	77
Noncontiguous	43	29	31	34	27	32	35	12	40	45	44	39
Special service	146	34	45	44	49	37	42	26	23	23	39	38
Inactive:												
Temporarily	41	38	36	31	39	46	22	31	22	24	32	47
Reserve fleet	668	263	241	237	238	228	30	27	20	20	15	11
Tons carried	15,445	8,175	7,844	7,872	7,919	7,597	7,835	9,433	15,153	16,107	16,558	16,511
Active:												
Foreign trade	4,699	3,901	3,886	3,826	3,530	3,426	1,076	2,303	6,223	2,793	1,611	1,715
Domestic trade ²	850	832	597	713	667	651	4,518	4,855	7,032	10,546	10,284	10,657
Coastwise	116	354	120	200	216	91	3,483	4,299	3,353	3,078	2,668	2,285
Noncontiguous	482	424	468	479	424	496	870	339	3,239	3,699	3,807	3,572
Special service	1,741	459	565	560	793	520	1,189	755	645	681	1,676	1,454
Inactive:												
Temporarily	472	541	499	451	555	660	691	1,173	952	1,806	2,746	2,492
Reserve fleet	7,684	2,442	2,297	2,322	2,374	2,340	361	347	301	301	239	193

¹ Includes combination passenger and cargo vessels, not shown separately. ² Includes intercoastal, not shown separately.

Source: U.S. Maritime Administration, *Employment Report of the United States Flag Merchant Fleet Ocean-going Vessels 1,000 Gross Tons and Over*, annual.

NO. 1126. SHIPBUILDING IN PRIVATE SHIPYARDS—SUMMARY: 1970 TO 1982

[Steel self-propelled vessels of 1,000 tons or over. See also *Historical Statistics, Colonial Times to 1970*, series Q 449-458]

TYPE OF VESSEL AND STATUS OF CONSTRUCTION	NUMBER						TONS (1,000)					
	1970	1975	1979	1980	1981	1982	1970	1975	1979	1980	1981	1982
Commercial (gross tons):												
Under construction ¹	49	86	70	69	49	35	1,388	5,064	2,635	1,816	937	730
Contracted for	13	14	21	7	9	3	580	599	487	116	154	12
Launched	11	18	20	23	21	16	322	759	720	442	334	321
Delivered	13	19	21	23	22	17	370	469	1,298	788	347	326
Cancelled	(NA)	12	1	4	--	--	(NA)	545	8	207	--	--
Naval (light displacement tons):												
Under construction ¹	108	63	102	99	91	93	621	663	677	630	628	573
Contracted for	6	16	13	11	28	30	132	106	61	101	97	324
Launched	23	8	25	22	16	20	117	110	142	183	73	100
Delivered	32	3	16	19	26	18	166	79	108	102	152	167

-- Represents zero. NA Not available. ¹ As of Jan. 4.

Source: Shipbuilders Council of America, Washington, D.C., *Annual Report*, and unpublished data.

NO. 1127. VESSELS REPAIRED OR CONVERTED, AND UNFINISHED SHIPBUILDING, IN PRIVATE SHIPYARDS: 1960 TO 1983

[In millions of dollars. For calendar years, except as indicated. Covers both shipbuilding and ship repair yards. See also *Historical Statistics, Colonial Times to 1970*, series Q 467-472]

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Vessels repaired or converted, total	396	718	790	1,246	1,242	1,359	1,507	1,719	1,967	2,469	2,822	2,819	(NA)
Commercial ships ¹	274	383	431	713	688	715	789	808	998	1,335	1,526	1,498	(NA)
Naval ships	122	335	359	533	554	644	718	911	969	1,134	1,296	1,321	(NA)
Unfinished shipbuilding work, total ²	1,466	2,247	2,484	7,373	9,774	9,900	9,802	9,828	11,309	11,145	10,350	11,940	20,702
Commercial ships	492	519	765	3,770	4,350	3,400	3,000	2,120	1,940	2,070	1,000	838	372
Naval ships	974	1,728	1,719	3,603	5,424	6,500	6,802	7,508	9,369	9,075	9,350	11,102	20,330

NA Not available. ¹ Includes Military Sealift Command work. ² Approximate value as of January 1.

Source: Shipbuilders Council of America, Washington, D.C., *Annual Report*, and unpublished data.

NO. 1128. EMPLOYEES IN GOVERNMENT AND PRIVATE SHIPYARDS: 1960 TO 1982

[In thousands. Annual average employment in establishments primarily engaged in building and repairing all types of ships, barges, canal boats, and lighters of 5 gross tons and over, whether propelled by sail or motor power or towed by other craft. Includes all full- and part-time employees]

YEAR	Total	Private yards	Navy yards	YEAR	Total	Private yards	Navy yards	YEAR	Total	Private yards	Navy yards
1960.....	208	112	96	1974.....	225	161	64	1979.....	244	173	71
1965.....	213	129	84	1975.....	217	154	65	1980.....	251	178	73
1970.....	216	134	83	1976.....	233	168	65	1981.....	264	187	77
1972.....	216	146	70	1977.....	242	174	68	1982.....	254	174	80
1973.....	214	149	65	1978.....	243	172	71				

Source: U.S. Bureau of Labor Statistics, unpublished data. (Current data for private yards published monthly in *Employment and Earnings*.)

NO. 1129. EMPLOYMENT ON U.S. FLAG MERCHANT VESSELS, 1960 TO 1982, AND BASIC MONTHLY (JANUARY) WAGE SCALE FOR ABLEBODIED SEAMEN, 1970 TO 1983

[Employment in thousands. See also *Historical Statistics, Colonial Times to 1970*, series Q 414-416]

YEAR	Employment ¹	YEAR	Employment ¹	YEAR	East coast wage rate ²	West coast wage rate ³	YEAR	East coast wage rate ²	West coast wage rate ³
1960.....	49.2	1978.....	19.9	1970.....	\$470	\$662	1979.....	\$865	\$1,287
1965.....	39.1	1979.....	19.7	1975.....	612	900	1980.....	967	1,414
1970.....	37.6	1980.....	19.6	1976.....	698	1,001	1981.....	1,120	1,535
1975.....	20.5	1981.....	18.3	1977.....	737	1,072	1982.....	1,204	1,686
1977.....	20.9	1982.....	16.7	1978.....	804	1,172	1983.....	1,320	1,862

¹ As of June 30, except beginning 1978, as of Sept. 30. Estimates of personnel employed on merchant ships, 1,000 gross tons and over. Excludes vessels on inland waterways, Great Lakes, and those owned by, or operated for, U.S. Army and Navy, and special types such as cable ships, tugs, etc. ² Decrease due to seafaring strike. ³ Basic monthly wage, over and above subsistence (board and room); excludes overtime and fringe pay benefits. West coast incorporates extra pay for Saturdays and Sundays at sea into base wages but east coast does not.

Source: U.S. Maritime Administration, 1960 and 1965, *Seafaring Wage Rates*; thereafter, unpublished data.

NO. 1130. WORLDWIDE TANKER CASUALTIES: 1973 TO 1983

[Covers tankers, ore/oil carriers, and bulk/oil vessels of 6,000 deadweight tons and over; excludes liquid gas carriers. Incident is counted in the year it is reported. Based on data from "Lloyd's List" published by Lloyd's of London. "Casualties" include weather damage, strandings, collisions and other contact, fires and explosions, machinery damage, and other mishaps]

ITEM	Unit	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983 ¹
Total losses.....	Number.....	12	14	22	20	20	17	26	15	21	21	5
Deaths.....	Number.....	70	94	90	226	113	148	306	132	73	72	-
Oil spills.....	Number.....	36	48	45	29	49	35	65	32	33	9	5
Amount.....	1,000 tons.....	84.5	67.1	188.0	204.2	213.1	260.5	723.5	135.6	45.3	1.8	55.3

- Represents zero. NA Not available. ¹ Jan.-Mar.

Source: Tanker Advisory Center, Inc., New York, N.Y., "Worldwide Tanker Casualty Returns," quarterly.

NO. 1131. MERCHANT VESSELS—WORLD AND UNITED STATES: 1960 TO 1982

[Vessels of 100 gross tons and over. Excludes sailing ships, nonpropelled craft, and all ships built of wood. See also *Historical Statistics, Colonial Times to 1970*, series Q 473-480]

YEAR	WORLD: COMPLETED		WORLD: OWNED		U.S.: COMPLETED		U.S.: OWNED	
	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)
1960.....	2,005	8,382	36,311	129,770	49	379	4,059	24,837
1965.....	2,202	11,763	41,865	160,392	116	218	3,416	21,527
1970.....	2,814	20,980	52,444	227,490	156	375	2,993	18,463
1975.....	2,730	34,203	63,724	342,162	127	476	4,346	14,587
1979.....	2,466	14,289	71,129	413,021	182	1,352	5,088	17,542
1980.....	2,412	13,101	73,882	419,911	205	555	5,579	18,464
1981.....	2,259	16,932	73,864	420,835	223	360	5,869	18,908
1982.....	2,312	16,820	75,151	624,742	204	216	6,133	19,111

Source: Lloyd's Register of Shipping, London, England, *Statistical Tables*, annual; and *Annual Summary of Merchant Ships Completed in the World*.

NO. 1132. MERCHANT VESSELS—SHIPS AND TONNAGE LOST WORLDWIDE, BY TYPE OF SHIP: 1978 TO 1981

[For merchant vessels of 100 gross tons or more. Excludes ships which have been declared constructive losses but have undergone repair during the year. Loss counted in the year the casualty is declared, as opposed to the year it is reported]

TYPE OF SHIP	SHIPS LOST					GROSS TONNAGE LOST (1,000)				
	1978	1979	1980	1981		1978	1979	1980	1981	
				Total	Percent of total				Total	Percent of total
Total ¹	473	465	387	359	100.0	1,711	2,210	1,804	1,238	100.0
Tankers.....	28	29	24	22	6.1	703	939	707	293	23.7
Ore/bulk carriers ²	13	17	21	16	4.5	186	374	458	307	24.8
General cargo.....	286	273	211	218	60.7	756	785	478	534	43.2
Passenger ³	2	5	9	2	.6	3	46	112	16	1.3
Fishing.....	99	110	98	65	18.1	27	35	30	19	1.6

¹ Includes types not shown separately. ² Includes ore/bulk/oil carriers. ³ Includes cargo-passenger ships.
Source: Lloyd's Register of Shipping, London, England, *Casualty Return*, annual.

NO. 1133. MERCHANT FLEETS OF THE WORLD: 1970 TO 1981

[Vessels of 1,000 gross tons and over, 1970-1979 as of Dec. 31. Beginning 1980, as of Jan. 1 of the following year. Specified countries have 100 or more ships]

YEAR AND COUNTRY OF REGISTRY, 1981	TOTAL		PASSENGER/ CARGO COMB.		FREIGHTERS		BULK CARRIERS ¹		TANKERS	
	Number	Avg. age (yr.)	Number	Avg. age (yr.)	Number	Avg. age (yr.)	Number	Avg. age (yr.)	Number	Avg. age (yr.)
1970, world total	19,980	13	895	21	11,899	13	2,954	8	4,232	11
United States.....	1,579	22	171	25	1,076	23	38	25	294	19
Foreign.....	18,401	12	724	20	10,823	13	2,916	8	3,938	10
1975, world total	22,872	12	714	21	12,575	13	4,272	9	5,311	11
United States.....	857	21	60	29	511	21	19	25	267	19
Foreign.....	22,015	12	654	21	12,064	13	4,253	9	5,044	12
1979, world total	24,797	12	455	23	14,328	13	4,714	9	5,260	12
United States.....	865	22	68	33	469	23	21	22	307	19
Foreign.....	23,932	12	427	22	13,859	13	4,693	9	4,953	11
1980, world total	24,867	13	468	24	14,242	14	4,798	10	5,359	12
United States.....	864	23	65	34	471	23	20	22	308	20
Foreign.....	24,003	13	403	22	13,771	13	4,778	10	5,051	11
1981, world total	25,110	13	405	25	14,201	14	4,987	10	5,517	12
United States.....	853	23	63	35	457	24	19	21	314	20
Privately owned.....	574	17	7	23	252	16	19	21	296	18
Government-owned.....	279	34	56	36	205	33	-	-	18	38
Foreign	24,257	12	342	23	13,744	13	4,968	10	5,203	11
Argentina.....	189	18	1	30	105	16	20	16	63	23
Brazil.....	325	13	3	35	192	15	63	4	67	13
British Colonies.....	228	12	2	19	128	13	77	9	21	16
Bulgaria.....	107	12	2	12	48	14	40	9	17	13
Canada.....	101	19	5	27	35	17	13	22	40	19
China, Mainland.....	750	16	8	24	529	16	115	12	98	15
Taiwan.....	182	13	3	15	111	13	35	10	13	13
Cyprus.....	374	20	4	36	315	21	31	18	24	11
Denmark.....	253	7	4	19	152	6	27	6	70	8
Egypt.....	101	17	12	29	73	13	3	17	13	27
Finland.....	163	10	4	7	78	11	43	7	38	12
France.....	317	9	2	19	161	-	45	8	109	10
Germany Dem. Rep.....	162	11	2	27	133	10	20	16	7	12
Germany, Fed. Rep. of.....	440	7	3	12	314	7	44	8	79	6
Greece.....	2,893	16	45	30	1,449	18	955	12	444	17
India.....	378	13	7	16	231	14	105	11	35	9
Indonesia.....	287	17	9	21	214	18	14	11	50	13
Italy.....	606	16	14	27	229	16	134	14	229	16
Japan.....	1,770	7	8	8	707	8	504	8	551	6
Korea, Rep. of.....	449	11	-	-	250	13	134	9	65	11
Liberia.....	2,220	10	7	26	509	10	859	9	845	10
Netherlands.....	445	8	3	23	351	7	25	7	66	12
Norway.....	600	7	20	16	173	7	150	7	257	7
Panama.....	2,725	15	30	27	1,845	18	505	12	341	13
Philippines.....	167	16	15	19	178	18	43	10	42	20
Poland.....	315	11	4	17	217	12	81	9	13	6
Romania.....	211	7	1	43	156	7	44	7	10	8
Saudi Arabia.....	149	19	2	24	82	22	7	19	58	14
Singapore.....	592	14	8	21	400	16	77	10	107	11
Soviet Union.....	2,449	13	49	21	1,785	13	163	9	452	14
Spain.....	510	9	1	52	317	8	71	7	121	11
Sweden.....	221	7	1	14	126	7	22	7	72	8
Turkey.....	190	13	10	32	121	12	28	10	31	12
United Kingdom.....	927	9	10	17	375	9	198	9	344	10
Yugoslavia.....	257	15	6	18	188	16	51	10	12	15
All others.....	2,115	13	37	21	1,465	14	222	9	391	11

- Represents zero. ¹ Includes bulk/oil, ore/oil, and ore/bulk/oil carriers.

Source: U.S. Maritime Administration, *A Statistical Analysis of the World's Merchant Fleets*, annual.